

SERIAL NUMBER: XXXX-XXXX

CRANE RATING MANUAL

HTC-8675 Series II

4 - Section Boom

For Replacement, Order Part Number: P9P0230
(122115)

Link-Belt®
CONSTRUCTION EQUIPMENT

® Link-Belt is a registered trademark.

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WARNING

READ AND UNDERSTAND THE OPERATORS AND SAFETY MANUALS AND THE FOLLOWING INSTRUCTIONS AND RATED LIFTING CAPACITIES BEFORE OPERATING THE CRANE. OPERATION WHICH DOES NOT FOLLOW THESE INSTRUCTIONS MAY RESULT IN AN ACCIDENT.

Operating Instructions

General:

1. Rated lifting capacities in pounds as shown on lift charts pertain to this crane as originally manufactured and normally equipped by Link-Belt Construction Equipment Company (LBCE). Modifications to the crane or use of optional equipment other than that specified can result in a reduction in capacity.
2. Construction equipment can be dangerous if improperly operated or maintained. Operation and maintenance of this crane must be in compliance with the information in the Operator's, Parts, and Safety Manuals supplied with this crane. If these manuals are missing, order replacements through the distributor.
3. The operator and other personnel associated with this crane shall read and fully understand the latest applicable American National Standards Institute (ANSI) and American Society of Engineers (ASME) safety standards for cranes.
4. All rated lifting capacities listed in this Crane Rating Manual are in compliance with ANSI/ASME B30.5, SAE J1063, and SAE J765 in effect at the time of manufacture.
5. The rated lifting capacities are based on crane standing level on firm supporting surface.

Set Up:

1. The crane shall be leveled on a firm supporting surface. Depending on the nature of the supporting surface, it may be necessary to have structural supports under the outrigger pontoons or tires to spread the load to a larger bearing surface.
2. When making lifts on outriggers, all tires must be free of supporting surface. All outrigger beams must be extended to the same length; fully retracted, intermediate extended, or fully extended. The front bumper outrigger must be properly extended.
3. When making lifts on tires, they must be inflated to the recommended pressure. (See Tire Inflation.)
4. Before swinging boom to over side position on tires, or on fully retracted outriggers where capacities are not published, boom sections must be fully retracted and 41° boom angle maintained.
5. For required parts of line, see Wire Rope Capacity Chart and Winch Performance.
6. Before setting up the crane, refer to Allowable Crane Configuration and rated lifting capacities to determine allowable crane configurations.

Operation:

1. Rated lifting capacities at rated radius shall not be exceeded. Do not tip the crane to determine allowable loads.
2. Rated lifting capacities shall be reduced for repetitive lift applications. For concrete bucket operation, weight of bucket and load shall not exceed 80% of rated load. For duty cycle operation, such as loading and unloading, maximum allowable load shall not exceed 70% of rated load. For clamshell and magnet operation, weight of bucket, or magnet, and load shall not exceed 70% of rated load. Lifts with fly erected are prohibited for clamshell and magnet operation.
3. Rated lifting capacities shown on fully extended outriggers do not exceed 85% of the tipping loads. Rated lifting capacities shown on intermediate extended or fully retracted outriggers are determined by the formula, rated load = (tipping load - 0.1 X load factor)/1.25. Rated lifting capacities shown on tires do not exceed 75% of the tipping loads.
4. Rated lifting capacities in the shaded areas are governed by factors other than those that would cause a tipping condition.
5. Rated lifting capacities must deduct the weight of the hook block, hook ball, slings, bucket, magnet, auxiliary lifting devices, etc. to obtain the net load that can be lifted. Their weights are considered part of the lifted load. Rated lifting capacities include the deduct for either fly stowed on the base of the boom. For deducts of any fly erected, but not used, see Capacity Deductions.
6. Rated lifting capacities are based on freely suspended loads. No attempt shall be made to move a load horizontally on the ground in any direction.
7. Rated lifting capacities are for lift crane service only.
8. Do not operate at radii or boom lengths (minimum or maximum) where capacities are not listed. At these positions, the crane can tip or cause boom failure.
9. The maximum loads which can be telescoped are not definable because of variation in loadings and crane maintenance, but it is permissible to attempt retraction and extension within the limits of the applicable load rating chart.
10. Boom extend mode EM4 is for fixed boom lengths only as shown on load rating charts. Rated lifting capacities are based on all sections pinned together or the boom fully extended. Do not attempt to extend or retract the boom with loads greater than 10,000 lb.

11. For main boom capacities when either boom length or radius, or both are between values listed, proceed as follows:
 - a. For boom lengths not listed, use rating for next longer boom length or next shorter boom length, whichever is smaller.
 - b. For load radii not listed, use rating for next larger radius.
12. The user shall operate at reduced ratings to allow for adverse job conditions such as: soft or uneven ground, out of level conditions, wind, side loads, pendulum action, jerking or sudden stopping of loads, hazardous conditions, experience of personnel, traveling with loads, electrical wires, etc. Side load on boom or fly is dangerous and shall be avoided.
13. Rated lifting capacities do not account for the effects of wind on a suspended load or boom. Lifting capacities should be considered acceptable for wind speeds up to 20 mph and appropriately reduced for wind speeds greater than 20 mph. (See Wind Speed Restrictions.)
14. For cold weather operation, rated capacities should be reduced by the following rule: a 1% reduction in rated capacity should be taken for each 1°F below 0°F. Example: if the temperature is - 10°F a 10% reduction in rated capacities should be taken, at - 40°F a 40% reduction.
15. For auxiliary lifting sheave capacities, use main boom charts minus auxiliary lifting sheave deduct. (See Capacity Deductions.) The effective length of the boom increases by 2'.
16. Rated lifting capacities are based on correct reeving. A deduction must be made for excessive reeving. Any reeving over minimum required is considered excessive and must be accounted for when making lifts. Use the Working Range Diagram to estimate the extra length of rope, then deduct the required rope weight (listed on the Wire Rope Capacity Chart) for each extra length of wire rope before attempting to lift a load.
17. The loaded boom angle combined with the boom length give only an approximation of the operating radius. The boom angle, before loading, should be greater to account for deflection. Some capacities are limited by a maximum obtainable 80° boom angle.
18. Fly capacities are determined by radius only for fully extended boom lengths of 98.7' and 127'. For radii not shown use rating for next larger radius. For fly capacities with main boom length less than fully extended, the rated capacities are determined by the boom angle. For angles not shown use the next lower boom angle to determine the rated capacity.
19. The 41' boom length structural lifting capacities are based on boom fully retracted. If the boom is not fully retracted, do not exceed capacities shown for the 50' boom length.
20. Rated lifting capacities on tires depend on tire capacity, condition of tires, and tire air pressure. On tire capacities require lifting from main boom head only on a smooth and level surface. The boom must be centered over the rear of the crane with two position travel swing lock engaged and the load must be restrained from swinging. Pick and carry operations are restricted to maximum speed of 1 mph. For correct tire pressure, see Tire Inflation.

Definitions:

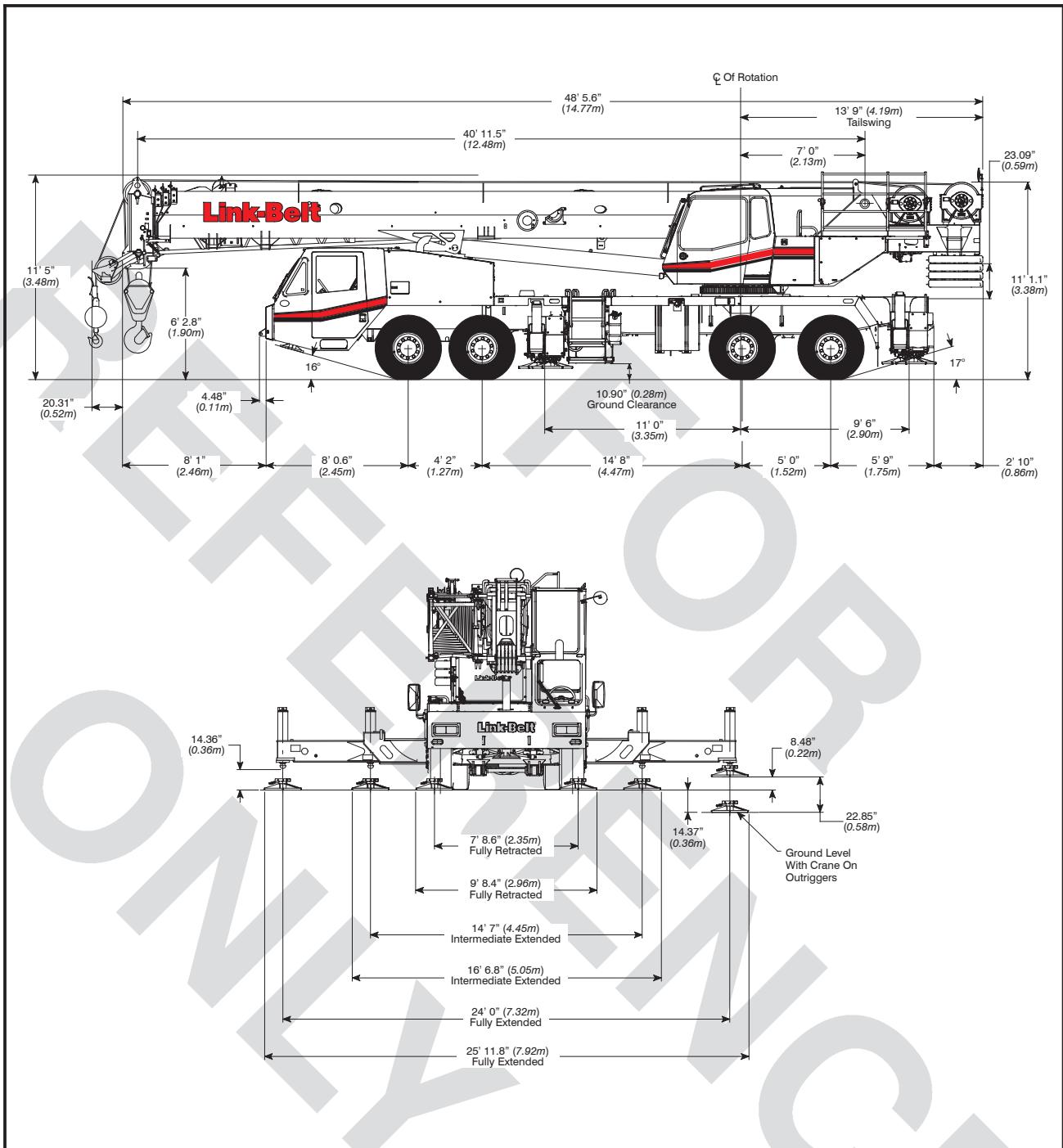
1. Loaded Boom Angle In Degrees: \angle ° The angle between the boom base section and horizontal with freely suspended load at the rated radius.
2. Load Radius: Horizontal distance from a projection of the axis of rotation to the supporting surface, before loading, to the center of the vertical hoist line or tackle with load applied.
3. Working Area: Area measured in a circular arc about the centerline of rotation as shown on the Working Areas Diagram.
4. Freely Suspended Load: Load hanging free with no direct external force applied except by the hoist line.
5. Side Load: Horizontal side force applied to the lifted load either on the ground or in the air.
6. No Load Stability Limit: The radius or boom angle beyond which it is not permitted to position the boom because the crane can overturn without any load on the hook.
7. Load Factor: Load applied at the boom tip which gives the same moment effect as the boom mass.

Patents:

1. This crane is covered by one or more of the following patents:

6,131,750	6,357,773
6,499,612	6,601,719

General Dimensions



Tire Inflation

Tire Size	Operation	Tire Pressure (psi)
12 R 22.5	1 mph Stationary	120 120

Boom Extend Modes

Boom Length (ft)	Boom Telescope Length (ft)					
	T3	%	T2	%	T1	%
41						
50	9.0	32				
60	19.0	68				
70	27.8	100	1.2	4		
80	27.8	100	11.2	39		
90	27.8	100	21.2	74		
100	27.8	100	28.7	100	2.5	8
110	27.8	100	28.7	100	12.5	42
120	27.8	100	28.7	100	22.5	76
127	27.8	100	28.7	100	29.5	100
Boom Length (ft)	Boom Telescope Length (ft)					
	T3	%	T2	%	T1	%
41						
50	9.0	32				
60	13.9	50	5.1	18		
70	13.9	50	15.1	53		
80	13.9	50	25.1	87		
90	13.9	50	28.7	100	6.4	22
100	13.9	50	28.7	100	16.4	56
113.1	13.9	50	28.7	100	29.5	100
Boom Length (ft)	Boom Telescope Length (ft)					
	T3	%	T2	%	T1	%
41						
50	9.0	32				
60	13.9	50	5.1	18		
70	13.9	50	14.3	50	0.8	3
80	13.9	50	14.3	50	10.8	37
90	13.9	50	14.3	50	20.8	71
98.7	13.9	50	14.3	50	29.5	100
Boom Length (ft)	Boom Fixed Length (ft)					
	T3	%	T2	%	T1	%
41						
47.0	6.0	22				
61.3	6.0	22	14.3	50		
76.0	6.0	22	14.3	50	14.7	50



EM 1

Base
41' (12.5m)

Extend

Diagram: T3 (41'), T2 (1.2'), T1 (2.5') + Base = 41' (12.5m)



EM 2

Base
41' (12.5m)

Extend

Diagram: T3 (41'), T2 (5.1'), T1 (12.5') + Base = 127' (38.7m)



EM 3

Base
41' (12.5m)

Extend

Diagram: T3 (41'), T2 (14.3'), T1 (16.4') + Base = 113.1' (34.5m)



EM 4

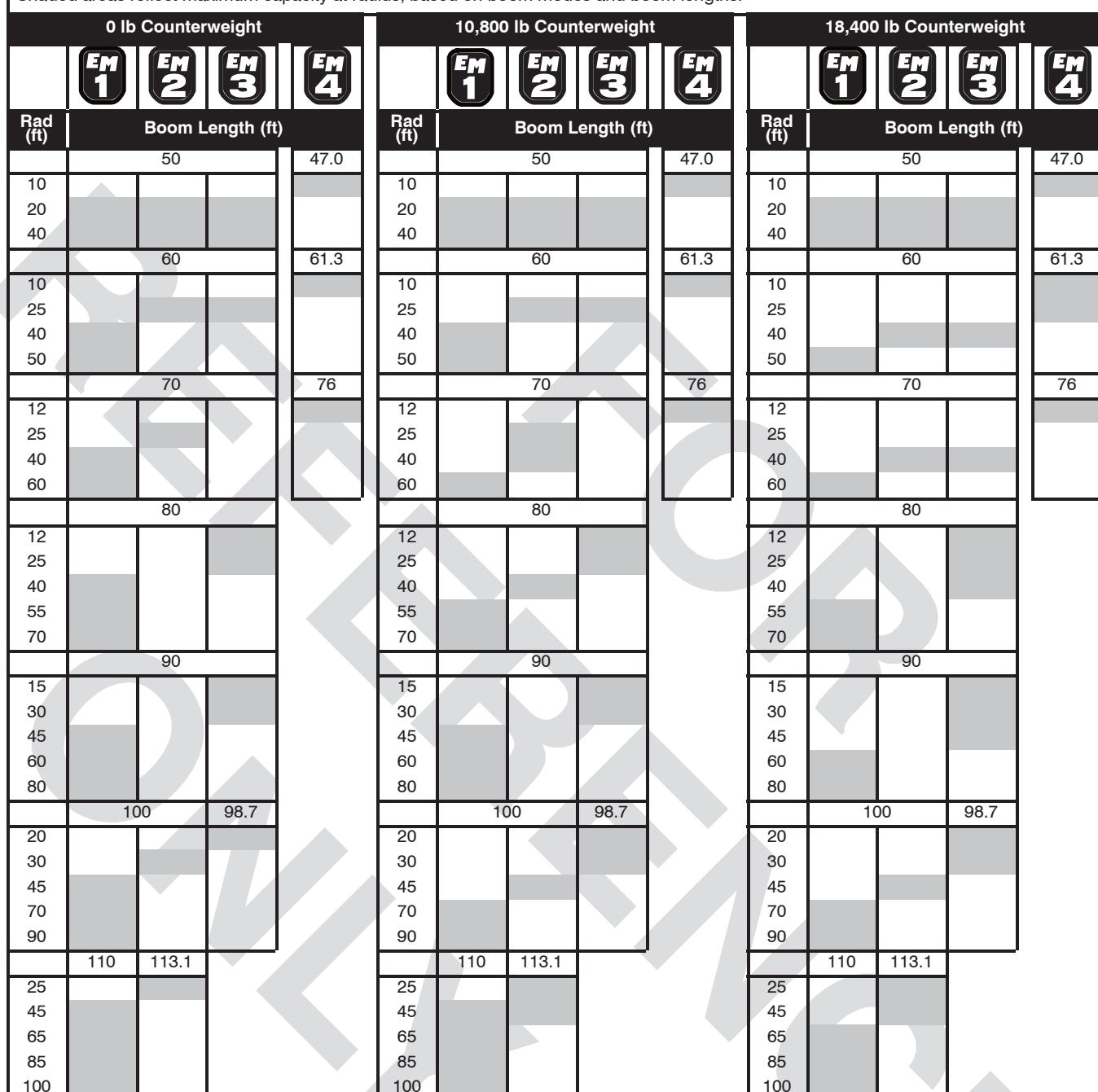
Base
41' (12.5m)

Extend

Diagram: T3 (41'), T2 (14.3'), T1 (14.7') + Base = 76.0' (23.2m)

Boom Mode Performance - General Reference Guide

Shaded areas reflect maximum capacity at radius, based on boom modes and boom lengths.



Pontoon Loadings

Maximum Pontoon Load (lb)		Maximum Pontoon Ground Bearing Pressure (psi)	
Front - 97,400		199	
Rear - 106,000		217	
Bumper - 51,000		262	

Winch Performance

Wire Rope Layer	Winch Line Pulls		Drum Rope Capacity (ft)	
	Two Speed Winch		Layer	Total
	Low Speed	High Speed		
	Available (lb*)	Available (lb)		
1	16,880	7,595	114	114
2	15,519	6,982	124	238
3	14,362	6,461	134	372
4	13,365	6,013	144	516
5	12,497	5,623	154	670
6	N/A	N/A	164	834

*Maximum lifting capacity: Type RB Rope=12,920 lb, Type YB Rope=16,000 lb, Type ZB Rope=15,600 lb

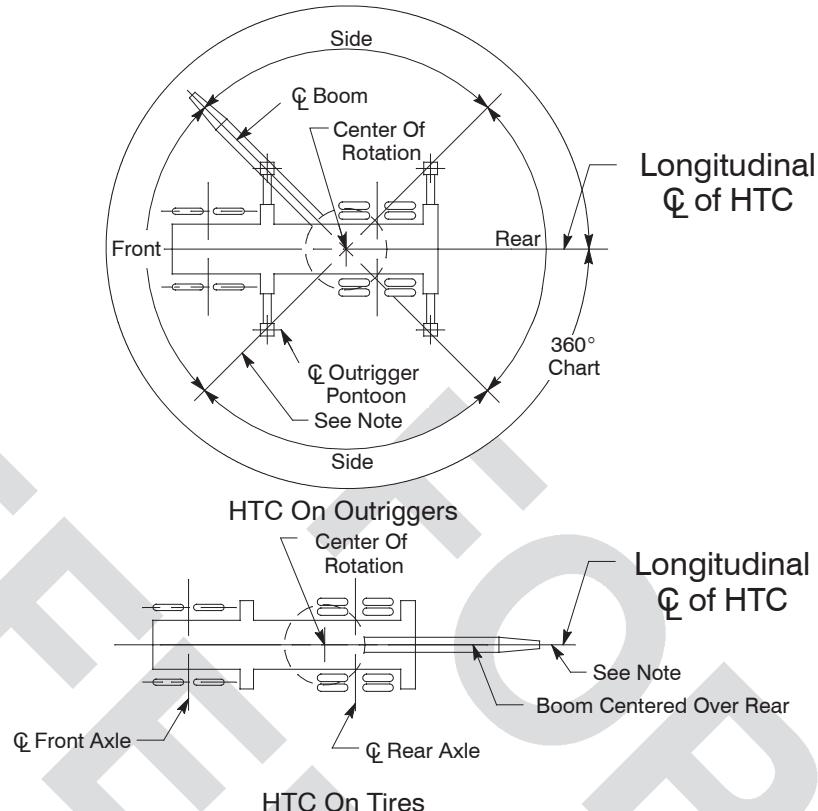
Wire Rope Capacity Chart

Maximum Lifting Capacities Based On Wire Rope Strength			
Parts of Line	3/4"	3/4"	3/4"
	Type RB	Type YB	Type ZB
1	12,920	16,000	15,600
2	25,840	32,000	31,200
3	38,760	48,000	46,800
4	51,680	64,000	62,400
5	64,600	80,000	78,000
6	77,520	96,000	93,600
7	90,440	112,000	109,200
8	103,360	128,000	124,800
9	116,280	144,000	140,400
10	129,200	160,000	156,000
11	142,120	176,000	171,600
Rope Weight-lb/ft	1.2	1.2	1.3
LBCE Type	Description		
RB	18 X 19 Rotation Resistant - Compacted Strand - High Strength Preformed - Right Regular Lay		
YB	34 X 7 Rotation Resistant - WSC - Compacted Strand - Right Lang Lay		
ZB	34 X 7 Rotation Resistant - Extra Improved Plow Steel - Right Regular Lay or Right Lang Lay		

Notes:

1. Capacities shown are in pounds and working loads must not exceed the ratings on the capacity charts in the Crane Rating Manual.
2. Capacity deducts for auxiliary lifting devices do not apply for wire rope strength capacities.
3. Special reeving is required when using more than 10 parts of line.
4. Consult Operator's Manual for wire rope inspection procedures, single part of line applications, and reeving diagrams.

Working Areas



Note: These Lines Determine The Limiting Position Of Any Load For Operation Within Working Areas Indicated.

Capacity Deductions

Load Handling Equipment	Weight (lb)
25 Ton Quick Reeve 1 Sheave Hook Block (See Hook Block For Actual Weight)	750
40 Ton Quick Reeve 3 Sheave Hook Block (See Hook Block For Actual Weight)	855
40 Ton Quick Reeve 4 Sheave Hook Block (See Hook Block For Actual Weight)	900
60 Ton Quick Reeve 3 Sheave Hook Block (See Hook Block For Actual Weight)	812- 1,352
60 Ton Quick Reeve 4 Sheave Hook Block (See Hook Block For Actual Weight)	1,109
75 Ton Quick Reeve 5 Sheave Hook Block (See Hook Block For Actual Weight)	1,406
8.5 Ton Hook Ball (See Hook Ball For Actual Weight)	360
10 Ton Hook Ball (See Hook Ball For Actual Weight)	583

Auxiliary Lifting Devices	Weight (lb)	
Auxiliary Lifting Sheave Attached	100	
Lifting From Main Boom With:	2° Offset	15° - 45° Offset
38' or 64' Fly Stowed On Boom Base (See Operation Note 5)	0	0
38' Offset Fly Erected But Not Used	6,200	11,500
64' Offset Fly Erected But Not Used	11,200	21,900
80' or 96' Offset Fly Erected But Not Used	Prohibited	
16' Fly Erected But Not Used	2,300	N/A
Lifting From 38' Offset Fly With:		
26' Fly Tip Erected But Not Used		
26' Fly Tip Stowed On 38' Offset Fly	Prohibited	

Note: Capacity deductions are for Link-Belt supplied equipment only.

Allowable Crane Configuration - Main Boom

Outrigger Position	Counterweight (lb)	Boom Length (ft)			
		EM 1	EM 2	EM 3	EM 4
Full	0				
	A	3,600			
	A,A	7,200			
	A,A,B	10,800	41 - 127	41 - 113.1	41 - 98.7
	A,A,B,C	13,000			41 - 76
	A,A,B,C,D	14,400			
Intermediate	A,A,B,C,D,E,F	18,400			
	0		41 - 110	41 - 100	
	A	3,600	41 - 120		
	A,A	7,200			
	A,A,B	10,800	41 - 127	41 - 113.1	41 - 98.7
	A,A,B,C	13,000			41 - 76
Retracted	A,A,B,C,D	14,400			
	A,A,B,C,D,E,F	18,400			
	0				
	A	3,600			
	A,A	7,200	41 - 90		
	A,A,B	10,800	41 - 100		
On Tires	A,A,B,C	13,000			
	A,A,B,C,D	14,400	41 - 110		
On Tires	A,A,B,C,D,E,F	18,400			
	0 - 18,400		41 - 90		Not Allowed
On Tires					Not Allowed

Allowable Crane Configuration - Main Boom + Attachments

Outrigger Position	Counterweight (lb)	Boom Length (ft)					
		EM 1	EM 3	EM 1	EM 3	EM 1	EM 1
Full	0						
	A	3,600					
	A,A	7,200					
	A,A,B	10,800					
	A,A,B,C	13,000					
	A,A,B,C,D	14,400					
	A,A,B,C,D,E,F	18,400					
Intermediate	0 - 18,400						
	0 - 18,400						
	0 - 18,400						
Retracted	0 - 18,400						
	0 - 18,400						
On Tires	0 - 18,400						
	0 - 18,400						

Backward Stability - Maximum Boom Angle

			Outrigger Position	
Counterweight (lb)	On Tires	Retracted	Intermediate	Full
0	80°			
3,600	76°	80°		
7,200	70°			
10,800	63°	76°		80°
13,000	60°	73°		
14,400	57°	70°		
18,400	49°	63°		

Maximum boom angle is based on retracted boom at the least stable over side position.

Wind Speed Restrictions

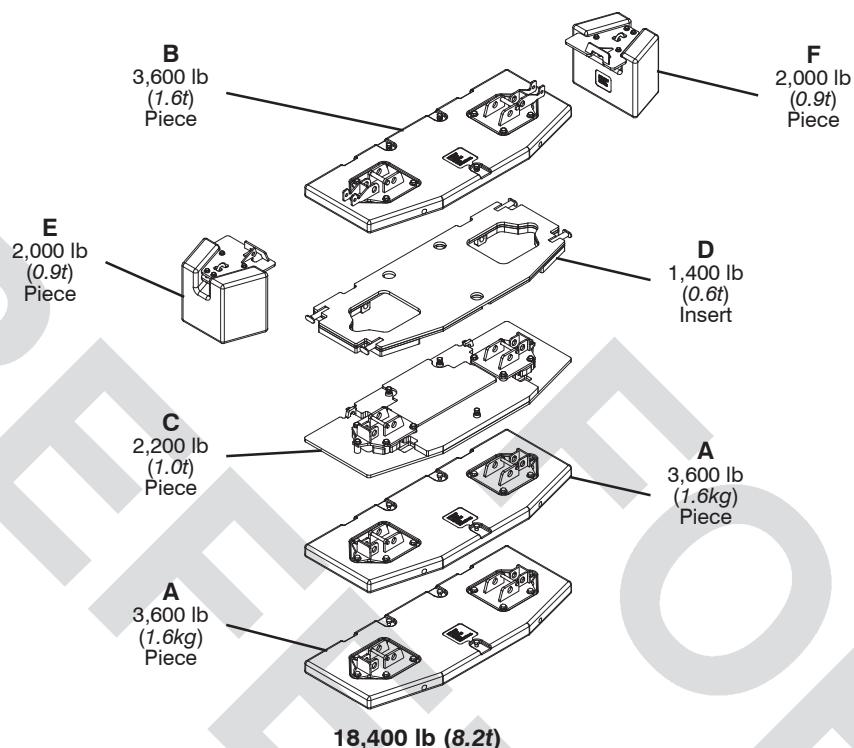
If The Wind Speed Is:	Rated Lifted Capacities Must Be Reduced By At Least:
0- 20 mph	Normal Lifting Operations (See Capacity Charts)
21- 29 mph	40%
30- 39 mph	70%
40 mph or Greater	Crane operation must be shutdown and the boom retracted and lowered to horizontal.

- Additional reductions are required for loads with large wind sail area.
- These restrictions are based on crane on fully extended outriggers.
- During high winds (above 20 mph), the operator shall add 10° to all minimum boom angles due to no load stability and shall not boom down below that angle.

Hydraulic Circuit Pressure Settings

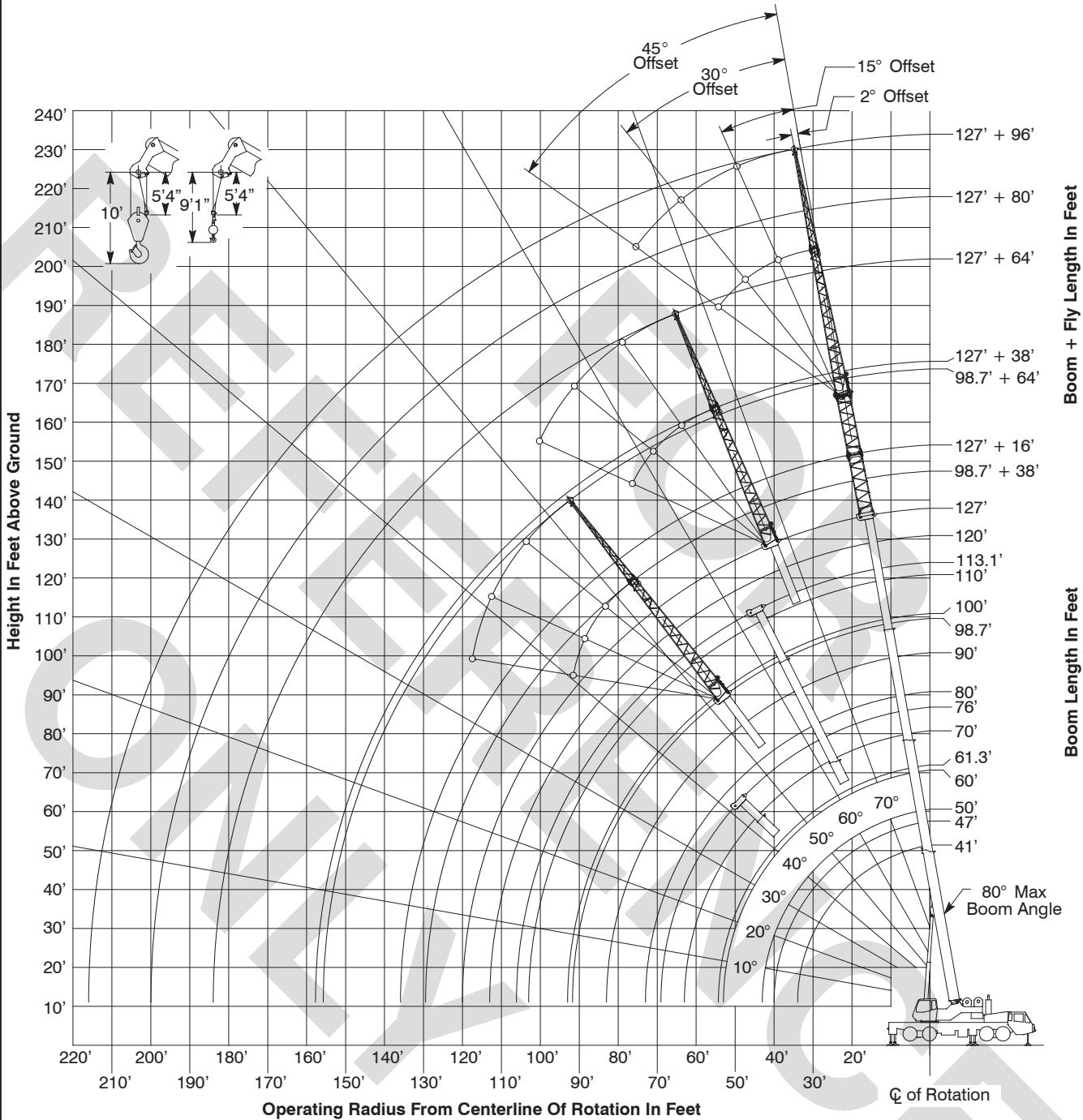
Function	Pressure (psi)
Front And Rear Winch	3,400
Outriggers	3,000
Boom Hoist	3,850
Telescope	3,850
Swing	2,000
Steering	2,000
Bumper Outrigger	650
Pilot Control	500

Allowable Counterweight Configuration



Counterweight Pieces		A 3,600 lb (1.6t) Piece	A 3,600 lb (1.6t) Piece	B 3,600 lb (1.6t) Piece	C 2,200 lb (1.0t) Piece	D 1,400 lb (0.6t) Insert	E 2,000 lb (0.9t) Piece	F 2,000 lb (0.9t) Piece
Counterweight Configurations	0 lb (0t)							
	A 3,600 lb (1.6t)	X						
	A,A 7,200 lb (3.2t)	X	X					
	A,A,B 10,800 lb (4.8t)	X	X	X				
	A,A,B,C 13,000 lb (5.8t)	X	X	X	X			
	A,A,B,C,D 14,400 lb (6.4t)	X	X	X	X	X		
	A,A,B,C,D,E,F 18,400 lb (8.2t)	X	X	X	X	X	X	X

Working Range Diagram



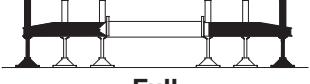
Note: Boom and fly geometry shown are for unloaded condition and crane standing level on firm supporting surface. Boom deflection, subsequent radius, and boom angle change must be accounted for when applying load to hook.



WARNING

Do Not Lower The Boom Below The Minimum Boom Angle For No Load Stability As Shown In The Lift Charts For The Boom Lengths Given. Loss Of Stability Will Occur Causing A Tipping Condition.

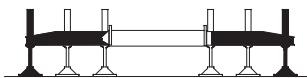
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Rated Lifting Capacities In Pounds								EM 1	
Load Radius (ft)	41.0 ft			50.0 ft			60.0 ft		
	24°	360°	Over Rear	24°	360°	Over Rear	24°	360°	Over Rear
10	70.0	124,900	124,900	74.0	89,000	89,000	77.0	62,900	62,900
12	66.5	102,600	102,600	71.5	87,100	87,100	75.0	58,500	58,500
15	62.0	79,900	79,900	68.0	80,000	80,000	72.0	53,000	53,000
20	53.0	57,100	57,100	61.0	59,100	59,100	67.0	45,700	45,700
25	43.0	43,300	43,300	54.0	45,300	45,300	61.5	40,200	40,200
30	30.0	30,600	30,600	46.0	33,100	33,100	55.5	34,600	34,600
35				36.5	24,600	24,800	49.0	26,100	26,400
40				23.5	18,600	19,200	42.0	20,200	20,800
45							33.5	16,000	16,800
50							21.5	12,800	13,700
Min.Bm. Ang./Cap.	0.0	23,400	23,800	0.0	15,800	16,600	0.0	11,300	11,500
Radius (ft)	34.0			43.0			53.0		

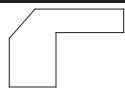
Load Radius (ft)	70.0 ft			80.0 ft			90.0 ft		
	24°	360°	Over Rear	24°	360°	Over Rear	24°	360°	Over Rear
10	79.0	49,800	49,800						
12	77.5	46,500	46,500	79.5	42,400	42,400			
15	75.0	42,200	42,200	77.5	42,400	42,400	79.0	36,700	36,700
20	70.5	36,400	36,400	73.5	37,900	37,900	76.0	36,700	36,700
25	66.0	31,900	31,900	70.0	33,800	33,800	73.0	34,500	34,500
30	61.5	28,400	28,400	66.0	30,300	30,300	69.5	30,700	30,700
35	56.5	25,600	25,600	62.0	27,400	27,500	66.0	27,700	27,700
40	51.5	21,100	21,800	57.5	21,400	22,000	62.0	21,600	22,200
45	45.5	16,900	17,700	52.5	17,200	18,000	58.0	17,400	18,200
50	38.5	13,800	14,700	47.5	14,100	14,900	54.0	14,200	15,100
55	31.0	11,400	12,300	42.5	11,700	12,600	49.5	11,900	12,800
60	20.0	9,500	10,300	36.0	9,800	10,700	45.0	10,000	10,900
65				29.0	8,300	9,100	40.0	8,500	9,300
70				18.5	6,900	7,700	34.0	7,200	8,000
75							27.0	6,100	6,900
80							17.5	5,100	5,900
Min.Bm. Ang./Cap.	0.0	8,500	8,600	0.0	6,300	7,100	0.0	4,600	5,400
Radius (ft)	63.0			73.0			83.0		



**Rated Lifting Capacities
In Pounds**



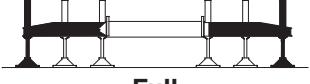
Full

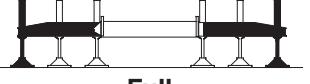


0 lb

Load Radius (ft)	100.0 ft			110.0 ft		
	Δ $^{\circ}$	360°	Over Rear	Δ $^{\circ}$	360°	Over Rear
20	77.5	30,700	30,700	79.0	29,100	29,100
25	75.0	30,700	30,700	77.0	29,100	29,100
30	72.0	28,400	28,400	74.5	29,100	29,100
35	69.0	25,700	25,700	72.0	26,600	26,600
40	66.0	21,700	22,200	68.5	21,400	21,900
45	62.5	17,400	18,200	65.5	17,100	17,900
50	58.5	14,300	15,100	62.5	14,000	14,900
55	55.0	12,000	12,800	59.0	11,700	12,600
60	51.0	10,100	11,000	55.5	9,800	10,700
65	47.0	8,500	9,400	52.5	8,300	9,200
70	42.5	7,200	8,100	48.5	7,000	7,900
75	38.0	6,200	7,000	45.0	5,900	6,800
80	32.5	5,200	6,000	40.5	5,000	5,800
85	26.0	4,400	5,100	36.0	4,200	5,000
90	17.0	3,700	4,400	31.0	3,500	4,200
95				24.5	2,900	3,600
100				16.0	2,300	3,000
Min.Bm. Ang./Cap.	0.0	3,300	4,000	0.0	2,100	2,700
Radius (ft)		93.0			103.0	

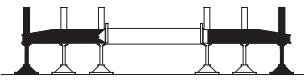
Load Radius (ft)	120.0 ft			127.0 ft		
	Δ $^{\circ}$	360°	Over Rear	Δ $^{\circ}$	360°	Over Rear
25	78.5	25,500	25,500	79.0	22,600	22,600
30	76.5	25,500	25,500	77.0	22,600	22,600
35	74.0	25,500	25,500	75.5	22,600	22,600
40	71.5	21,100	21,700	73.0	20,900	21,600
45	68.5	16,900	17,700	70.0	16,700	17,500
50	65.5	13,700	14,700	67.5	13,600	14,500
55	62.5	11,500	12,400	64.5	11,300	12,300
60	59.5	9,600	10,500	62.0	9,500	10,400
65	56.5	8,000	9,000	59.0	7,900	8,800
70	53.5	6,800	7,700	56.0	6,600	7,600
75	50.0	5,700	6,600	53.0	5,600	6,500
80	46.5	4,800	5,600	50.0	4,700	5,500
85	43.0	4,000	4,800	47.0	3,900	4,700
90	39.0	3,300	4,100	43.5	3,200	4,000
95	34.5	2,700	3,400	39.5	2,600	3,300
100	30.0	2,200	2,900	35.5	2,100	2,800
105	24.0	1,700	2,300	31.0	1,600	2,200
110	15.5	1,300	1,900	25.5	1,200	1,800
115						
Min.Bm. Ang./Cap.	0.0	1,000	1,700	20.5		
Radius (ft)		113.0			113.8	

Rated Lifting Capacities In Pounds												
Load Radius (ft)	41.0 ft			50.0 ft			60.0 ft			70.0 ft		
	 °	360°	Over Rear	 °	360°	Over Rear	 °	360°	Over Rear	 °	360°	Over Rear
10	70.0	124,900	124,900	74.0	89,000	89,000	77.0	77,000	77,000	79.5	74,000	74,000
12	66.5	102,600	102,600	71.5	87,100	87,100	75.0	72,200	72,200	77.5	74,000	74,000
15	62.0	79,900	79,900	68.0	80,000	80,000	72.0	66,000	66,000	75.0	68,500	68,500
20	53.0	57,100	57,100	61.0	59,100	59,100	67.0	57,800	57,800	71.0	60,700	60,700
25	43.0	43,300	43,300	54.0	45,300	45,300	61.5	46,400	46,400	66.5	46,900	46,900
30	30.0	30,600	30,600	46.0	33,100	33,100	55.5	34,200	34,200	61.5	34,800	34,800
35				36.5	24,600	24,800	49.0	25,800	26,000	56.5	26,300	26,500
40				23.5	18,600	19,200	41.5	19,800	20,500	51.0	20,400	21,000
45							33.0	15,700	16,500	45.0	16,200	17,100
50							21.5	12,600	13,400	38.5	13,100	14,000
55										30.5	10,800	11,600
60										20.0	8,800	9,700
Min.Bm. Ang./Cap.	0.0	23,400	23,800	0.0	15,800	16,600	0.0	11,000	11,900	0.0	7,800	8,700
Radius (ft)	34.0			43.0			53.0			63.0		
Load Radius (ft)	80.0 ft			90.0 ft			100.0 ft			113.1 ft		
	 °	360°	Over Rear	 °	360°	Over Rear	 °	360°	Over Rear	 °	360°	Over Rear
12	79.5	57,000	57,000	79.5	48,700	48,700						
15	77.5	51,900	51,900	76.0	42,800	42,800	78.5	42,500	42,500			
20	73.5	44,900	44,900	73.0	38,100	38,100	75.5	38,300	38,300	78.0	32,800	32,800
25	70.0	39,500	39,500	69.5	34,100	34,100	72.5	34,800	34,800	75.5	32,100	32,100
30	66.0	35,100	35,100	65.5	26,600	26,800	69.0	26,400	26,600	72.5	26,100	26,300
35	61.5	26,700	26,900									
40	57.0	20,800	21,400	62.0	20,700	21,300	65.5	20,500	21,100	69.5	20,200	20,900
45	52.5	16,500	17,400	58.0	16,500	17,300	62.0	16,300	17,100	66.5	16,000	16,900
50	47.5	13,400	14,400	53.5	13,400	14,300	58.5	13,200	14,100	63.5	12,900	13,900
55	42.0	11,100	12,100	49.5	11,100	12,000	54.5	10,900	11,900	60.0	10,700	11,700
60	36.0	9,200	10,100	44.5	9,200	10,200	51.0	9,000	10,000	57.0	8,800	9,800
65	28.5	7,700	8,500	39.5	7,700	8,600	47.0	7,500	8,400	53.5	7,300	8,300
70	18.5	6,400	7,200	34.0	6,400	7,300	42.5	6,200	7,100	50.0	6,000	7,000
75				27.0	5,300	6,100	37.5	5,200	6,000	46.5	5,000	5,900
80				17.5	4,400	5,200	32.5	4,300	5,100	42.5	4,100	4,900
85							26.0	3,500	4,200	38.5	3,300	4,100
90							17.0	2,800	3,500	34.0	2,600	3,400
95										28.5	2,000	2,700
100										21.5	1,500	2,200
105										10.5	1,000	1,700
Min.Bm. Ang./Cap.	0.0	5,700	6,500	0.0	3,900	4,700	0.0	2,400	3,100	0.0	900	1,600
Radius (ft)	73.0			83.0			93.0			106.1		

Rated Lifting Capacities In Pounds						Full				0 lb			
Load Radius (ft)	41.0 ft			50.0 ft			60.0 ft			70.0 ft			
	 °	360°	Over Rear	 °	360°	Over Rear	 °	360°	Over Rear	 °	360°	Over Rear	
10	70.0	124,900	124,900	74.0	89,000	89,000	77.0	77,000	77,000	79.5	74,400	74,400	
12	66.5	102,600	102,600	71.5	87,100	87,100	75.0	72,200	72,200	77.5	74,300	74,300	
15	62.0	79,900	79,900	68.0	80,000	80,000	72.0	66,000	66,000	75.0	68,700	68,700	
20	53.0	57,100	57,100	61.0	59,100	59,100	67.0	57,800	57,800	71.0	60,600	60,600	
25	43.0	43,300	43,300	54.0	45,300	45,300	61.5	46,400	46,400	66.0	46,800	46,800	
30	30.0	30,600	30,600	46.0	33,100	33,100	55.5	34,200	34,200	61.5	34,700	34,700	
35				36.5	24,600	24,800	49.0	25,800	26,000	56.5	26,300	26,500	
40				23.5	18,600	19,200	41.5	19,800	20,500	51.0	20,300	21,000	
45							33.0	15,700	16,500	45.0	16,100	17,000	
50							21.5	12,600	13,400	38.5	13,000	13,900	
55										30.5	10,700	11,600	
60										20.0	8,800	9,700	
Min.Bm. Ang./Cap.	0.0	23,400	23,800	0.0	15,800	16,600	0.0	11,000	11,900	0.0	7,800	8,700	
Radius (ft)	34.0			43.0			53.0			63.0			

Load Radius (ft)	80.0 ft			90.0 ft			98.7 ft		
	 °	360°	Over Rear	 °	360°	Over Rear	 °	360°	Over Rear
12	79.5	62,800	62,800						
15	77.5	62,800	62,800	79.5	61,400	61,400			
20	74.0	60,400	60,400	76.5	57,100	57,100	78.0	47,900	47,900
25	70.0	46,700	46,700	73.0	46,500	46,500	75.5	42,500	42,500
30	65.5	34,500	34,500	69.5	34,300	34,300	72.0	34,100	34,100
35	61.5	26,000	26,200	65.5	25,800	26,000	68.5	25,600	25,900
40	57.0	20,100	20,800	61.5	19,900	20,600	65.0	19,800	20,500
45	52.5	15,900	16,800	57.5	15,700	16,600	61.5	15,600	16,500
50	47.5	12,800	13,800	53.5	12,800	13,600	58.0	12,600	13,500
55	42.0	10,500	11,500	49.5	10,400	11,400	54.0	10,300	11,300
60	36.0	8,700	9,600	44.5	8,500	9,500	50.0	8,400	9,400
65	28.5	7,100	8,000	39.5	7,000	8,000	46.0	6,900	7,900
70	18.5	5,800	6,700	34.0	5,800	6,600	41.5	5,700	6,600
75				27.0	4,700	5,500	36.5	4,600	5,500
80				17.5	3,800	4,600	31.0	3,700	4,500
85							24.0	2,900	3,700
90							13.5	2,200	3,000
Min.Bm. Ang./Cap.	0.0	5,200	6,000	0.0	3,300	4,100	0.0	2,000	2,700
Radius (ft)	73.0			83.0			91.7		

**Fixed Boom Lengths
Rated Lifting Capacities
In Pounds
See Operation Note 10.**



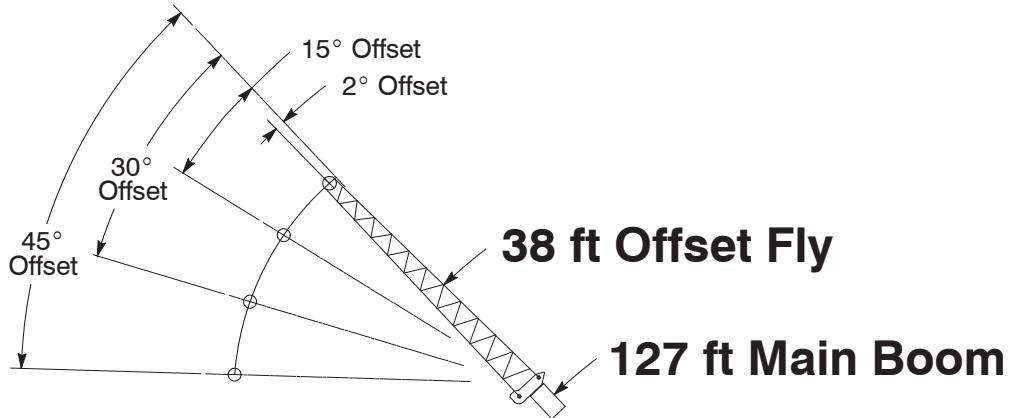
Full



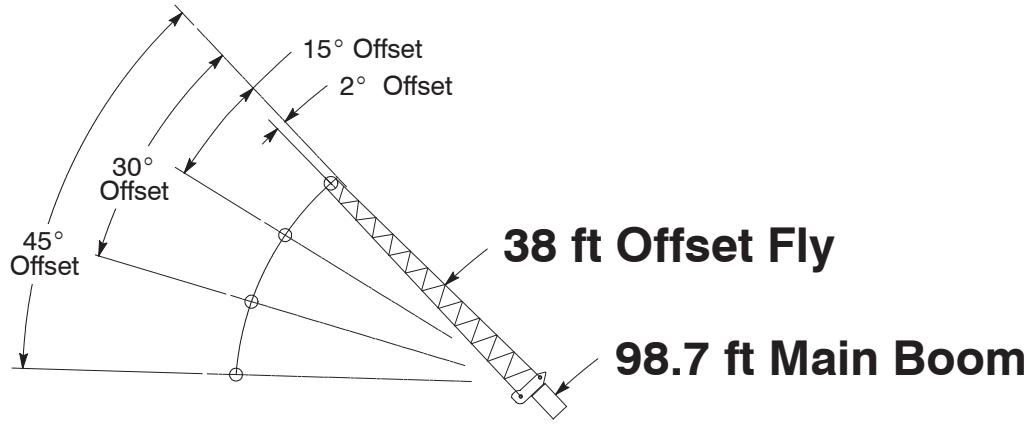
0 lb

Load Radius (ft)	41.0 ft			47.0 ft		
	24°	360°	Over Rear	24°	360°	Over Rear
10	70.0	124,900	124,900	73.0	110,700	110,700
12	66.5	102,600	102,600	70.0	103,900	103,900
15	62.0	79,900	79,900	66.0	81,300	81,300
20	53.0	57,100	57,100	59.0	58,500	58,500
25	43.0	43,300	43,300	51.0	44,700	44,700
30	30.0	30,600	30,600	42.0	32,400	32,400
35				30.5	23,900	24,200
Min.Bm. Ang./Cap.	0.0	23,400	23,800	0.0	17,800	18,600
Radius (ft)		34.0			40.0	

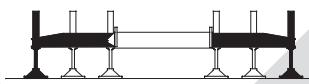
Load Radius (ft)	61.3 ft			76.0 ft		
	24°	360°	Over Rear	24°	360°	Over Rear
10	77.5	106,900	106,900			
12	75.5	104,800	104,800	79.0	81,000	81,000
15	72.5	82,500	82,500	77.0	77,400	77,400
20	67.5	59,800	59,800	72.5	59,700	59,700
25	62.0	46,000	46,000	68.5	46,000	46,000
30	56.0	33,800	33,800	64.0	33,600	33,600
35	50.0	25,400	25,600	59.5	25,200	25,500
40	43.0	19,400	20,200	55.0	19,300	20,000
45	35.0	15,300	16,100	49.5	15,100	16,100
50	24.5	12,200	13,000	44.5	12,100	13,100
55				38.0	9,800	10,800
60				31.0	7,900	8,900
65				21.5	6,400	7,300
Min.Bm. Ang./Cap.	0.0	10,100	11,000	0.0	5,300	6,200
Radius (ft)		54.3			69.0	



Rated Lifting Capacities In Pounds								
Load Radius (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	°	360°	°	360°	°	360°	°	360°
35	79.5	10,900						
40	78.0	10,900						
45	76.5	10,900	79.5	10,400				
50	75.0	10,900	78.0	10,300				
55	73.5	10,900	76.5	10,100	79.5	9,100		
60	72.0	10,200	75.0	9,900	77.5	8,900		
65	69.5	8,600	73.0	9,400	76.0	8,700	78.0	8,100
70	67.5	7,300	70.5	8,000	74.0	8,600	76.5	8,000
75	65.0	6,200	68.5	6,800	72.0	7,500	74.5	7,900
80	62.5	5,200	66.0	5,800	69.5	6,400	72.0	6,900
85	60.5	4,400	63.5	5,000	67.0	5,500	69.5	5,900
90	58.0	3,700	61.5	4,200	64.5	4,700	67.0	5,000
95	55.5	3,100	59.0	3,500	62.0	4,000	64.0	4,300
100	53.0	2,600	56.5	3,000	59.5	3,300	61.5	3,600
105	50.5	2,100	53.5	2,400	56.5	2,800	58.5	3,000
110	48.0	1,600	51.0	2,000	54.0	2,300	55.5	2,500
115	45.0	1,200	48.0	1,500	51.0	1,800	52.5	2,000
120			45.0	1,100	47.5	1,400	49.0	1,500
125					44.0	1,000	45.0	1,100
Min.Bm. Ang./Cap.	42.0		42.5		43.0		43.0	
Radius (ft)	120.0		123.3		126.3		127.5	
Maximum Boom Length At 0° Boom Angle (ft)	93							



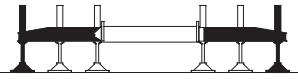
**Rated Lifting Capacities
In Pounds**



0 lb

Load Radius (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	2° °	360°	15° °	360°	30° °	360°	45° °	360°
30	78.0	16,200						
35	76.0	15,600						
40	74.0	14,900	77.0	12,500				
45	72.0	14,300	75.0	12,000	78.5	10,100		
50	69.5	13,600	73.0	11,500	76.5	9,800		
55	67.0	11,900	70.5	11,100	74.0	9,500	77.0	8,600
60	64.5	9,900	68.5	10,700	72.0	9,300	74.5	8,400
65	62.0	8,300	65.5	9,100	69.5	9,000	72.0	8,300
70	59.0	7,000	63.0	7,700	67.0	8,400	69.5	8,100
75	56.5	5,900	60.0	6,600	64.0	7,200	67.0	7,700
80	53.5	5,000	57.5	5,500	61.0	6,100	63.5	6,500
85	50.5	4,200	54.5	4,700	57.5	5,200	60.0	5,500
90	47.5	3,500	51.0	3,900	54.5	4,300	56.5	4,600
95	44.0	2,900	48.0	3,300	51.0	3,600	53.0	3,800
100	40.5	2,300	44.5	2,700	47.5	3,000	49.0	3,100
105	37.0	1,900	40.5	2,100	43.5	2,400	44.5	2,500
110	32.5	1,400	36.0	1,700	38.5	1,900		
115	27.5	1,000	31.0	1,200	33.5	1,400		
Min.Bm. Ang./Cap.	25.5		26.5		26.5		26.5	
Radius (ft)	116.7		118.8		120.0		120.0	
Maximum Boom Length At 0° Boom Angle (ft)	93							

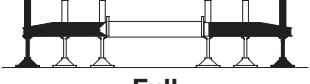
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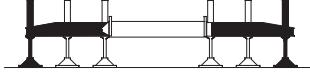
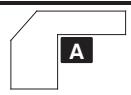
Rated Lifting Capacities In Pounds						A		EM 1	
Load Radius (ft)	41.0 ft			50.0 ft			60.0 ft		
	24°	360°	Over Rear	24°	360°	Over Rear	24°	360°	Over Rear
10	70.0	129,100	129,100	74.0	89,000	89,000	77.0	62,900	62,900
12	66.5	106,100	106,100	71.5	87,100	87,100	75.0	58,500	58,500
15	62.0	82,800	82,800	68.0	80,000	80,000	72.0	53,000	53,000
20	53.0	59,300	59,300	61.0	61,200	61,200	67.0	45,700	45,700
25	43.0	45,000	45,000	54.0	47,000	47,000	61.5	40,200	40,200
30	30.0	33,900	33,900	46.0	36,300	36,300	55.5	35,900	35,900
35				36.5	27,400	27,400	49.0	29,000	29,000
40				24.0	21,200	21,400	42.0	22,800	23,000
45							33.5	18,300	18,600
50							21.5	14,800	15,300
Min.Bm. Ang./Cap.	0.0	25,500	25,500	0.0	16,600	16,600	0.0	11,500	11,500
Radius (ft)	34.0			43.0			53.0		

Load Radius (ft)	70.0 ft			80.0 ft			90.0 ft		
	24°	360°	Over Rear	24°	360°	Over Rear	24°	360°	Over Rear
10	79.0	49,800	49,800						
12	77.5	46,500	46,500	79.5	42,400	42,400			
15	75.0	42,200	42,200	77.5	42,400	42,400	79.0	36,700	36,700
20	70.5	36,400	36,400	73.5	37,900	37,900	76.0	36,700	36,700
25	66.0	31,900	31,900	70.0	33,800	33,800	73.0	34,500	34,500
30	61.5	28,400	28,400	66.0	30,300	30,300	69.5	30,700	30,700
35	56.5	25,600	25,600	62.0	27,500	27,500	66.0	27,700	27,700
40	51.5	23,200	23,200	57.5	24,100	24,200	62.5	24,300	24,400
45	45.5	19,200	19,600	53.0	19,400	19,900	58.5	19,600	20,000
50	39.0	15,800	16,300	48.0	16,000	16,600	54.0	16,200	16,800
55	31.0	13,100	13,700	42.5	13,400	14,000	50.0	13,600	14,200
60	20.0	11,000	11,700	36.5	11,400	12,000	45.0	11,600	12,300
65				29.0	9,700	10,300	40.0	9,900	10,500
70				19.0	8,200	8,900	34.5	8,500	9,100
75							27.5	7,300	7,900
80							18.0	6,200	6,900
Min.Bm. Ang./Cap.	0.0	8,600	8,600	0.0	7,300	7,300	0.0	5,700	6,200
Radius (ft)	63.0			73.0			83.0		

Rated Lifting Capacities In Pounds				A		
Load Radius (ft)	100.0 ft			110.0 ft		
	74°	360°	Over Rear	74°	360°	Over Rear
20	77.5	30,700	30,700	79.0	29,100	29,100
25	75.0	30,700	30,700	77.0	29,100	29,100
30	72.0	28,400	28,400	74.5	29,100	29,100
35	69.0	25,700	25,700	72.0	26,600	26,600
40	66.0	23,400	23,400	69.0	24,000	24,100
45	62.5	19,700	20,100	66.0	19,400	19,800
50	59.0	16,200	16,800	62.5	16,000	16,500
55	55.0	13,600	14,200	59.5	13,300	14,000
60	51.5	11,600	12,300	56.0	11,400	12,100
65	47.0	9,900	10,600	52.5	9,700	10,400
70	43.0	8,500	9,200	49.0	8,300	9,000
75	38.0	7,300	8,000	45.0	7,100	7,800
80	32.5	6,300	6,900	41.0	6,100	6,800
85	26.0	5,400	6,000	36.5	5,200	5,900
90	17.0	4,700	5,200	31.0	4,500	5,100
95				25.0	3,800	4,400
100				16.5	3,200	3,800
Min.Bm. Ang./Cap.	0.0	4,300	4,800	0.0	2,900	3,400
Radius (ft)	93.0			103.0		

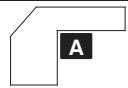
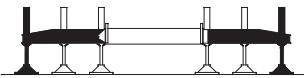
Load Radius (ft)	120.0 ft			127.0 ft		
	74°	360°	Over Rear	74°	360°	Over Rear
25	78.5	25,500	25,500	79.0	22,600	22,600
30	76.5	25,500	25,500	77.0	22,600	22,600
35	74.0	25,500	25,500	75.5	22,600	22,600
40	71.5	23,800	23,900	73.5	22,600	22,600
45	68.5	19,100	19,600	70.5	19,000	19,400
50	66.0	15,700	16,300	68.0	15,600	16,200
55	63.0	13,100	13,800	65.0	12,900	13,600
60	60.0	11,100	11,800	62.0	11,000	11,700
65	57.0	9,500	10,200	59.5	9,300	10,100
70	53.5	8,100	8,800	56.5	7,900	8,700
75	50.5	6,900	7,600	53.5	6,800	7,500
80	47.0	5,900	6,600	50.5	5,800	6,500
85	43.0	5,000	5,700	47.0	4,900	5,600
90	39.5	4,300	4,900	43.5	4,200	4,800
95	35.0	3,600	4,200	40.0	3,500	4,100
100	30.0	3,000	3,600	36.0	2,900	3,500
105	24.0	2,500	3,000	31.5	2,400	3,000
110	16.0	2,000	2,600	26.0	1,900	2,500
115				19.0	1,500	2,000
Min.Bm. Ang./Cap.	0.0	1,800	2,300	0.0	1,100	1,600
Radius (ft)	113.0			120.0		

Rated Lifting Capacities In Pounds												
Load Radius (ft)	41.0 ft			50.0 ft			60.0 ft			70.0 ft		
	 °	360°	Over Rear	 °	360°	Over Rear	 °	360°	Over Rear	 °	360°	Over Rear
10	70.0	129,100	129,100	74.0	89,000	89,000	77.0	77,000	77,000	79.5	74,000	74,000
12	66.5	106,100	106,100	71.5	87,100	87,100	75.0	72,200	72,200	77.5	74,000	74,000
15	62.0	82,800	82,800	68.0	80,000	80,000	72.0	66,000	66,000	75.0	68,500	68,500
20	53.0	59,300	59,300	61.0	61,200	61,200	67.0	57,800	57,800	71.0	60,800	60,800
25	43.0	45,000	45,000	54.0	47,000	47,000	61.5	48,100	48,100	66.5	48,600	48,600
30	30.0	33,900	33,900	46.0	36,300	36,300	55.5	37,500	37,500	61.5	38,100	38,100
35				36.5	27,400	27,400	49.0	28,700	28,700	56.5	29,100	29,100
40				24.0	21,200	21,400	42.0	22,500	22,700	51.0	23,000	23,200
45							33.0	17,900	18,300	45.0	18,400	18,900
50							21.5	14,500	15,000	38.5	15,100	15,600
55										30.5	12,500	13,100
60										20.0	10,400	11,000
Min.Bm. Ang./Cap.	0.0	25,500	25,500	0.0	16,600	16,600	0.0	12,400	12,400	0.0	9,300	10,000
Radius (ft)	34.0			43.0			53.0			63.0		
Load Radius (ft)	80.0 ft			90.0 ft			100.0 ft			113.1 ft		
	 °	360°	Over Rear	 °	360°	Over Rear	 °	360°	Over Rear	 °	360°	Over Rear
12	79.5	57,000	57,000	79.5	48,700	48,700						
15	77.5	51,900	51,900	76.0	42,800	42,800	78.5	42,500	42,500			
20	73.5	44,900	44,900	73.0	38,100	38,100	75.5	38,300	38,300	78.0	32,800	32,800
25	70.0	39,500	39,500	69.5	34,100	34,100	72.5	34,800	34,800	75.5	32,100	32,100
30	66.0	35,100	35,100	66.0	29,400	29,400	69.0	29,200	29,200	73.0	28,900	28,900
35	62.0	29,500	29,500									
40	57.5	23,400	23,600	62.0	23,400	23,500	65.5	23,100	23,300	70.0	22,900	23,100
45	52.5	18,800	19,300	58.0	18,700	19,200	62.0	18,500	19,000	66.5	18,300	18,800
50	47.5	15,400	16,000	54.0	15,300	16,000	58.5	15,100	15,800	63.5	14,900	15,500
55	42.0	12,800	13,500	49.5	12,700	13,400	55.0	12,600	13,200	60.5	12,400	13,000
60	36.0	10,800	11,500	45.0	10,800	11,500	51.0	10,600	11,300	57.0	10,400	11,100
65	29.0	9,100	9,800	40.0	9,100	9,800	47.0	8,900	9,600	54.0	8,700	9,500
70	18.5	7,700	8,300	34.0	7,700	8,400	42.5	7,500	8,200	50.5	7,300	8,100
75				27.0	6,500	7,200	38.0	6,400	7,000	47.0	6,200	6,900
80				17.5	5,500	6,100	32.5	5,400	6,000	43.0	5,200	5,900
85							26.0	4,500	5,100	38.5	4,300	5,000
90							17.0	3,700	4,300	34.0	3,600	4,200
95										28.5	2,900	3,500
100										22.0	2,300	2,900
105										11.0	1,800	2,400
Min.Bm. Ang./Cap.	0.0	6,900	7,600	0.0	4,900	5,600	0.0	3,300	3,900	0.0	1,700	2,300
Radius (ft)	73.0			83.0			93.0			106.1		

Rated Lifting Capacities In Pounds												
Load Radius (ft)	41.0 ft			50.0 ft			60.0 ft			70.0 ft		
	 °	360°	Over Rear	 °	360°	Over Rear	 °	360°	Over Rear	 °	360°	Over Rear
10	70.0	129,100	129,100	74.0	89,000	89,000	77.0	77,000	77,000	79.5	74,400	74,400
12	66.5	106,100	106,100	71.5	87,100	87,100	75.0	72,200	72,200	77.5	74,300	74,300
15	62.0	82,800	82,800	68.0	80,000	80,000	72.0	66,000	66,000	75.0	68,700	68,700
20	53.0	59,300	59,300	61.0	61,200	61,200	67.0	57,800	57,800	71.0	60,900	60,900
25	43.0	45,000	45,000	54.0	47,000	47,000	61.5	48,100	48,100	66.5	48,600	48,600
30	30.0	33,900	33,900	46.0	36,300	36,300	55.5	37,500	37,500	61.5	38,000	38,000
35				36.5	27,400	27,400	49.0	28,700	28,700	56.5	29,100	29,100
40				24.0	21,200	21,400	42.0	22,500	22,700	51.0	23,000	23,200
45							33.0	17,900	18,300	45.0	18,400	18,900
50							21.5	14,500	15,000	38.5	15,000	15,600
55										30.5	12,500	13,000
60										20.0	10,300	11,000
Min.Bm. Ang./Cap.	0.0	25,500	25,500	0.0	16,600	16,600	0.0	12,400	12,400	0.0	9,200	9,900
Radius (ft)	34.0			43.0			53.0			63.0		

Load Radius (ft)	80.0 ft			90.0 ft			98.7 ft		
	 °	360°	Over Rear	 °	360°	Over Rear	 °	360°	Over Rear
12	79.5	62,800	62,800						
15	77.5	62,800	62,800	79.5	61,400	61,400			
20	74.0	62,500	62,500	76.5	57,100	57,100	78.0	47,900	47,900
25	70.0	48,400	48,400	73.0	48,200	48,200	75.5	42,500	42,500
30	66.0	37,700	37,700	69.5	37,500	37,500	72.0	37,400	37,400
35	61.5	28,900	28,900	65.5	28,700	28,700	68.5	28,500	28,500
40	57.0	22,800	23,000	62.0	22,600	22,800	65.0	22,400	22,700
45	52.5	18,200	18,700	58.0	18,000	18,500	61.5	17,900	18,400
50	47.5	14,800	15,500	53.5	14,600	15,300	58.0	14,500	15,200
55	42.0	12,300	12,900	49.5	12,100	12,800	54.5	12,000	12,800
60	36.0	10,200	10,900	45.0	10,100	10,900	50.5	10,000	10,800
65	28.5	8,500	9,200	39.5	8,400	9,200	46.0	8,300	9,100
70	18.5	7,100	7,800	34.0	7,100	7,700	41.5	7,000	7,700
75				27.0	5,900	6,500	37.0	5,800	6,500
80				17.5	4,900	5,500	31.0	4,800	5,500
85							24.0	3,900	4,600
90							13.5	3,200	3,800
Min.Bm. Ang./Cap.	0.0	6,400	7,000	0.0	4,300	5,000	0.0	2,900	3,600
Radius (ft)	73.0			83.0			91.7		

**Fixed Boom Lengths
Rated Lifting Capacities
In Pounds
See Operation Note 10.**

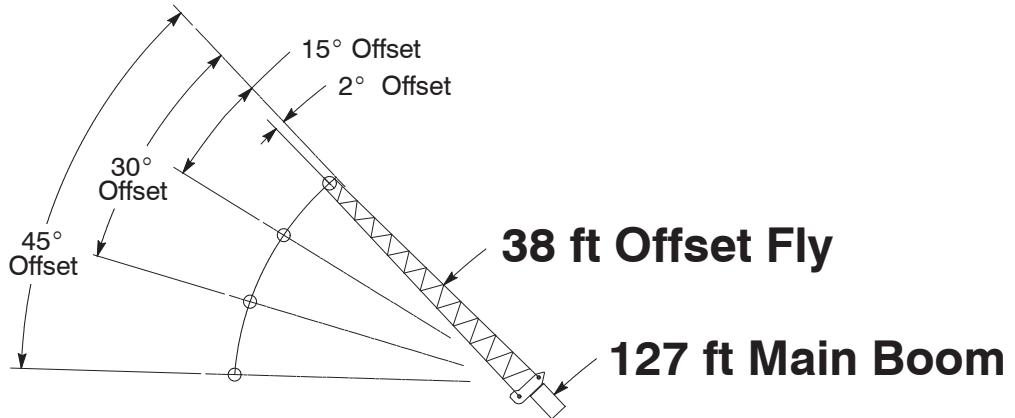


Full

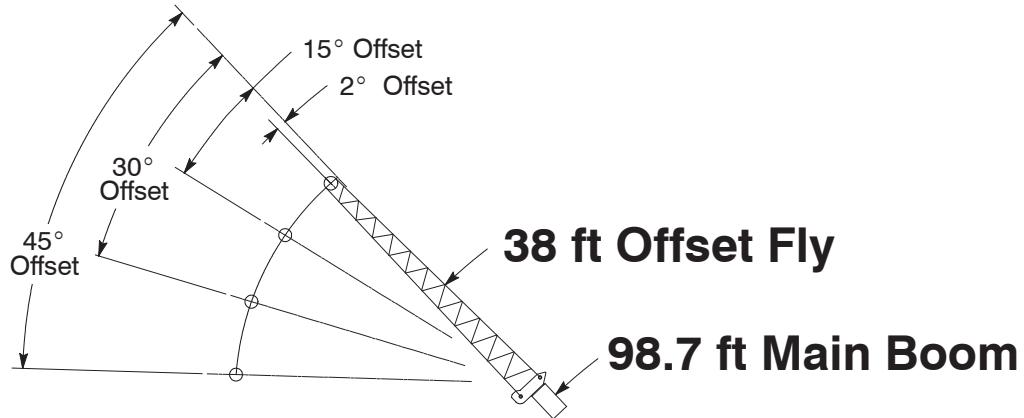
3,600 lb

Load Radius (ft)	41.0 ft			47.0 ft		
	0°	360°	Over Rear	0°	360°	Over Rear
10	70.0	129,100	129,100	73.0	110,700	110,700
12	66.5	106,100	106,100	70.0	105,000	105,000
15	62.0	82,800	82,800	66.0	84,200	84,200
20	53.0	59,300	59,300	59.0	60,700	60,700
25	43.0	45,000	45,000	51.0	46,400	46,400
30	30.0	33,900	33,900	42.0	35,700	35,700
35				30.5	26,700	26,700
Min.Bm. Ang./Cap.	0.0	25,500	25,500	0.0	18,900	18,900
Radius (ft)		34.0			40.0	

Load Radius (ft)	61.3 ft			76.0 ft		
	0°	360°	Over Rear	0°	360°	Over Rear
10	77.5	106,900	106,900			
12	75.5	106,900	106,900	79.0	81,000	81,000
15	72.5	85,300	85,300	77.0	77,400	77,400
20	67.5	62,000	62,000	73.0	61,800	61,800
25	62.0	47,700	47,700	68.5	47,700	47,700
30	56.0	37,100	37,100	64.0	36,900	36,900
35	50.0	28,200	28,200	59.5	28,100	28,100
40	43.0	22,100	22,400	55.0	21,900	22,200
45	35.0	17,500	18,000	50.0	17,400	18,000
50	24.5	14,100	14,700	44.5	14,000	14,800
55				38.0	11,500	12,300
60				31.0	9,500	10,200
65				21.5	7,800	8,500
Min.Bm. Ang./Cap.	0.0	11,800	12,500	0.0	6,600	7,300
Radius (ft)		54.3			69.0	

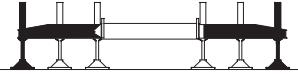


Rated Lifting Capacities In Pounds				A				
Load Radius (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	°	360°	°	360°	°	360°	°	360°
35	79.5	10,900						
40	78.0	10,900						
45	76.5	10,900	79.5	10,400				
50	75.0	10,900	78.0	10,300				
55	73.5	10,900	76.5	10,100	79.5	9,100		
60	72.0	10,900	75.0	9,900	77.5	8,900		
65	70.0	10,000	73.0	9,700	76.0	8,700	78.0	8,100
70	68.0	8,600	71.5	9,300	74.0	8,600	76.5	8,000
75	65.5	7,400	69.0	8,000	72.5	8,500	74.5	7,900
80	63.5	6,300	66.5	6,900	70.0	7,500	72.5	7,700
85	61.0	5,500	64.5	6,000	67.5	6,500	70.0	6,900
90	58.5	4,700	62.0	5,200	65.0	5,600	67.5	6,000
95	56.5	4,000	59.5	4,400	62.5	4,900	65.0	5,200
100	54.0	3,400	57.0	3,800	60.0	4,200	62.0	4,500
105	51.5	2,900	54.5	3,200	57.0	3,600	59.0	3,800
110	48.5	2,400	51.5	2,700	54.5	3,000	56.0	3,200
115	46.0	2,000	49.0	2,300	51.5	2,500	53.0	2,700
120	43.0	1,600	46.0	1,800	48.5	2,100	50.0	2,200
125	39.5	1,200	42.5	1,500	45.0	1,700	46.0	1,700
130			39.0	1,100	41.5	1,300	42.0	1,300
Min.Bm. Ang./Cap.	36.0		36.5		37.5		37.5	
Radius (ft)	130.0		133.3		135.0		135.0	
Maximum Boom Length At 0° Boom Angle (ft)	101							

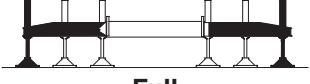
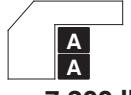


Rated Lifting Capacities In Pounds				A				
Load Radius (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	2° °	360°	15° °	360°	30° °	360°	45° °	360°
30	78.0	16,200						
35	76.0	15,600						
40	74.0	14,900	77.0	12,500				
45	72.0	14,300	75.0	12,000	78.5	10,100		
50	69.5	13,600	73.0	11,500	76.5	9,800		
55	67.5	13,000	70.5	11,100	74.0	9,500	77.0	8,600
60	65.0	11,500	68.5	10,700	72.0	9,300	74.5	8,400
65	62.5	9,700	66.0	10,300	69.5	9,000	72.0	8,300
70	59.5	8,300	63.5	9,000	67.0	8,800	69.5	8,100
75	57.0	7,100	60.5	7,700	64.5	8,400	67.0	8,000
80	54.0	6,100	57.5	6,600	61.5	7,200	64.0	7,600
85	51.0	5,200	54.5	5,700	58.0	6,200	60.5	6,500
90	48.0	4,500	51.5	4,900	55.0	5,300	57.0	5,600
95	44.5	3,800	48.5	4,200	51.5	4,500	53.5	4,700
100	41.0	3,200	44.5	3,500	48.0	3,800	49.5	4,000
105	37.5	2,700	41.0	2,900	44.0	3,200	45.0	3,300
110	33.5	2,200	37.0	2,400	39.5	2,600		
115	28.5	1,800	32.0	2,000	34.0	2,100		
120	23.0	1,400	26.5	1,500				
125	15.5	1,000	18.5	1,100				
Min.Bm. Ang./Cap.	10.5		11.0		14.0		16.0	
Radius (ft)	127.4		128.1		127.0		122.9	
Maximum Boom Length At 0° Boom Angle (ft)	97							

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Rated Lifting Capacities In Pounds						Full		A A		EM 1	
Load Radius (ft)	41.0 ft			50.0 ft			60.0 ft				
	24°	360°	Over Rear	24°	360°	Over Rear	24°	360°	Over Rear		
10	70.0	133,300	133,300	74.0	89,000	89,000	77.0	62,900	62,900		
12	66.5	109,600	109,600	71.5	87,100	87,100	75.0	58,500	58,500		
15	62.0	85,600	85,600	68.0	80,000	80,000	72.0	53,000	53,000		
20	53.0	61,400	61,400	61.0	63,400	63,400	67.0	45,700	45,700		
25	43.0	46,700	46,700	54.0	48,700	48,700	61.5	40,200	40,200		
30	30.0	36,900	36,900	46.0	38,800	38,800	55.5	35,900	35,900		
35				36.5	30,000	30,000	49.0	31,600	31,600		
40				24.0	23,600	23,600	42.0	25,200	25,200		
45							33.5	20,500	20,500		
50							21.5	16,800	17,000		
Min.Bm. Ang./Cap.	0.0	25,500	25,500	0.0	16,600	16,600	0.0	11,500	11,500		
Radius (ft)	34.0			43.0			53.0				
Load Radius (ft)	70.0 ft			80.0 ft			90.0 ft				
	24°	360°	Over Rear	24°	360°	Over Rear	24°	360°	Over Rear		
10	79.0	49,800	49,800								
12	77.5	46,500	46,500	79.5	42,400	42,400					
15	75.0	42,200	42,200	77.5	42,400	42,400	79.0	36,700	36,700		
20	70.5	36,400	36,400	73.5	37,900	37,900	76.0	36,700	36,700		
25	66.0	31,900	31,900	70.0	33,800	33,800	73.0	34,500	34,500		
30	61.5	28,400	28,400	66.0	30,300	30,300	69.5	30,700	30,700		
35	56.5	25,600	25,600	62.0	27,500	27,500	66.0	27,700	27,700		
40	51.5	23,200	23,200	57.5	25,200	25,200	62.5	25,200	25,200		
45	45.5	21,300	21,300	53.0	21,700	21,700	58.5	21,900	21,900		
50	39.0	17,700	18,000	48.0	18,000	18,200	54.5	18,200	18,400		
55	31.0	14,900	15,200	42.5	15,100	15,500	50.0	15,300	15,700		
60	20.0	12,600	12,900	36.5	12,900	13,300	45.5	13,000	13,500		
65				29.0	11,100	11,500	40.0	11,300	11,700		
70				19.0	9,500	10,000	34.5	9,800	10,200		
75							27.5	8,500	8,900		
80							18.0	7,300	7,800		
Min.Bm. Ang./Cap.	0.0	8,600	8,600	0.0	7,300	7,300	0.0	6,200	6,200		
Radius (ft)	63.0			73.0			83.0				

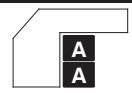
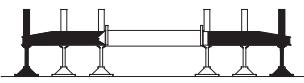
Rated Lifting Capacities In Pounds						EM 1
Load Radius (ft)	100.0 ft			110.0 ft		
	74°	360°	Over Rear	74°	360°	Over Rear
20	77.5	30,700	30,700	79.0	29,100	29,100
25	75.0	30,700	30,700	77.0	29,100	29,100
30	72.0	28,400	28,400	74.5	29,100	29,100
35	69.0	25,700	25,700	72.0	26,600	26,600
40	66.0	23,400	23,400	69.0	24,400	24,400
45	62.5	21,400	21,400	66.0	21,600	21,700
50	59.0	18,200	18,400	63.0	17,900	18,200
55	55.5	15,300	15,700	59.5	15,100	15,500
60	51.5	13,100	13,500	56.0	12,800	13,300
65	47.5	11,300	11,800	52.5	11,100	11,600
70	43.0	9,800	10,300	49.0	9,600	10,100
75	38.0	8,500	9,000	45.0	8,300	8,800
80	33.0	7,400	7,900	41.0	7,200	7,700
85	26.5	6,500	6,900	36.5	6,300	6,700
90	17.0	5,600	6,100	31.5	5,400	5,900
95				25.0	4,700	5,200
100				16.5	4,000	4,500
Min.Bm. Ang./Cap.	0.0	5,200	5,200	0.0	3,700	4,100
Radius (ft)	93.0			103.0		
Load Radius (ft)	120.0 ft			127.0 ft		
	74°	360°	Over Rear	74°	360°	Over Rear
25	78.5	25,500	25,500	79.0	22,600	22,600
30	76.5	25,500	25,500	77.0	22,600	22,600
35	74.0	25,500	25,500	75.5	22,600	22,600
40	72.0	25,000	25,000	73.5	22,600	22,600
45	69.0	21,400	21,400	71.0	21,200	21,300
50	66.0	17,700	18,000	68.0	17,500	17,800
55	63.0	14,800	15,200	65.5	14,700	15,100
60	60.0	12,700	13,000	62.5	12,600	12,900
65	57.0	10,900	11,400	59.5	10,700	11,300
70	54.0	9,300	9,900	56.5	9,200	9,800
75	50.5	8,100	8,600	53.5	8,000	8,500
80	47.0	7,000	7,500	50.5	6,900	7,400
85	43.5	6,100	6,600	47.5	5,900	6,500
90	39.5	5,200	5,700	44.0	5,100	5,600
95	35.0	4,500	5,000	40.0	4,400	4,900
100	30.0	3,900	4,300	36.0	3,800	4,200
105	24.5	3,300	3,700	31.5	3,200	3,600
110	16.0	2,800	3,200	26.0	2,700	3,100
115				19.5	2,200	2,600
Min.Bm. Ang./Cap.	0.0	2,500	2,900	0.0	1,800	2,200
Radius (ft)	113.0			120.0		

Rated Lifting Capacities In Pounds												
Load Radius (ft)	41.0 ft			50.0 ft			60.0 ft			70.0 ft		
	 °	360°	Over Rear	 °	360°	Over Rear	 °	360°	Over Rear	 °	360°	Over Rear
10	70.0	133,300	133,300	74.0	89,000	89,000	77.0	77,000	77,000	79.5	74,000	74,000
12	66.5	109,600	109,600	71.5	87,100	87,100	75.0	72,200	72,200	77.5	74,000	74,000
15	62.0	85,600	85,600	68.0	80,000	80,000	72.0	66,000	66,000	75.0	68,500	68,500
20	53.0	61,400	61,400	61.0	63,400	63,400	67.0	57,800	57,800	71.0	60,800	60,800
25	43.0	46,700	46,700	54.0	48,700	48,700	61.5	49,800	49,800	66.5	50,300	50,300
30	30.0	36,900	36,900	46.0	38,800	38,800	55.5	39,900	39,900	61.5	40,500	40,500
35				36.5	30,000	30,000	49.0	31,300	31,300	56.5	31,800	31,800
40				24.0	23,600	23,600	42.0	24,900	24,900	51.0	25,400	25,400
45							33.5	20,200	20,200	45.0	20,700	20,800
50							21.5	16,500	16,700	38.5	17,000	17,300
55										30.5	14,200	14,500
60										20.0	11,900	12,400
Min.Bm. Ang./Cap.	0.0	25,500	25,500	0.0	16,600	16,600	0.0	12,400	12,400	0.0	10,300	10,300
Radius (ft)	34.0			43.0			53.0			63.0		
Load Radius (ft)	80.0 ft			90.0 ft			100.0 ft			113.1 ft		
	 °	360°	Over Rear	 °	360°	Over Rear	 °	360°	Over Rear	 °	360°	Over Rear
12	79.5	57,000	57,000									
15	77.5	51,900	51,900	79.5	48,700	48,700						
20	73.5	44,900	44,900	76.0	42,800	42,800	78.5	42,500	42,500			
25	70.0	39,500	39,500	73.0	38,100	38,100	75.5	38,300	38,300	78.0	32,800	32,800
30	66.0	35,100	35,100	69.5	34,100	34,100	72.5	34,800	34,800	75.5	32,100	32,100
35	62.0	31,600	31,600	66.0	30,800	30,800	69.5	31,500	31,500	73.0	29,200	29,200
40	57.5	25,700	25,700	62.0	25,600	25,600	66.0	25,500	25,500	70.0	25,300	25,300
45	53.0	21,100	21,200	58.0	21,000	21,100	62.5	20,800	20,900	67.0	20,500	20,700
50	48.0	17,400	17,700	54.0	17,300	17,600	59.0	17,100	17,400	64.0	16,900	17,200
55	42.5	14,500	14,900	49.5	14,500	14,900	55.0	14,300	14,700	60.5	14,000	14,500
60	36.0	12,400	12,800	45.0	12,300	12,700	51.5	12,100	12,600	57.5	11,900	12,400
65	29.0	10,500	11,000	40.0	10,500	11,000	47.0	10,300	10,800	54.0	10,100	10,700
70	19.0	9,000	9,400	34.0	9,000	9,500	43.0	8,800	9,400	50.5	8,600	9,200
75				27.5	7,700	8,200	38.0	7,500	8,100	47.0	7,300	7,900
80				18.0	6,600	7,100	32.5	6,500	7,000	43.0	6,300	6,800
85							26.0	5,500	6,000	39.0	5,300	5,900
90							17.0	4,700	5,200	34.0	4,500	5,000
95										29.0	3,800	4,300
100										22.0	3,200	3,600
105										11.0	2,600	3,100
Min.Bm. Ang./Cap.	0.0	8,100	8,500	0.0	6,000	6,500	0.0	4,200	4,700	0.0	2,500	3,000
Radius (ft)	73.0			83.0			93.0			106.1		

Rated Lifting Capacities In Pounds												
Load Radius (ft)	41.0 ft			50.0 ft			60.0 ft			70.0 ft		
	°	360°	Over Rear	°	360°	Over Rear	°	360°	Over Rear	°	360°	Over Rear
10	70.0	133,300	133,300	74.0	89,000	89,000	77.0	77,000	77,000	79.5	74,400	74,400
12	66.5	109,600	109,600	71.5	87,100	87,100	75.0	72,200	72,200	77.5	74,300	74,300
15	62.0	85,600	85,600	68.0	80,000	80,000	72.0	66,000	66,000	75.0	68,700	68,700
20	53.0	61,400	61,400	61.0	63,400	63,400	67.0	57,800	57,800	71.0	60,900	60,900
25	43.0	46,700	46,700	54.0	48,700	48,700	61.5	49,800	49,800	66.5	50,300	50,300
30	30.0	36,900	36,900	46.0	38,800	38,800	55.5	39,900	39,900	61.5	40,400	40,400
35				36.5	30,000	30,000	49.0	31,300	31,300	56.5	31,700	31,700
40				24.0	23,600	23,600	42.0	24,900	24,900	51.0	25,400	25,400
45							33.5	20,200	20,200	45.0	20,700	20,800
50							21.5	16,500	16,700	38.5	17,000	17,200
55										30.5	14,100	14,500
60										20.0	11,900	12,300
Min.Bm. Ang./Cap.	0.0	25,500	25,500	0.0	16,600	16,600	0.0	12,400	12,400	0.0	10,200	10,200
Radius (ft)	34.0			43.0			53.0			63.0		

Load Radius (ft)	80.0 ft			90.0 ft			98.7 ft		
	°	360°	Over Rear	°	360°	Over Rear	°	360°	Over Rear
12	79.5	62,800	62,800						
15	77.5	62,800	62,800	79.5	61,400	61,400			
20	74.0	62,800	62,800	76.5	57,100	57,100	78.0	47,900	47,900
25	70.0	50,100	50,100	73.0	49,900	49,900	75.5	42,500	42,500
30	66.0	40,300	40,300	69.5	40,100	40,100	72.5	38,100	38,100
35	61.5	31,500	31,500	66.0	31,300	31,300	69.0	31,100	31,100
40	57.0	25,200	25,200	62.0	25,000	25,000	65.5	24,900	24,900
45	52.5	20,400	20,600	58.0	20,300	20,400	62.0	20,100	20,300
50	47.5	16,800	17,100	54.0	16,600	16,900	58.0	16,500	16,800
55	42.0	14,000	14,400	49.5	13,800	14,300	54.5	13,700	14,100
60	36.0	11,800	12,200	45.0	11,600	12,200	50.5	11,500	12,100
65	28.5	10,000	10,400	40.0	9,800	10,400	46.5	9,700	10,300
70	18.5	8,400	8,900	34.0	8,300	8,800	42.0	8,200	8,800
75				27.0	7,100	7,600	37.0	7,000	7,500
80				17.5	6,000	6,500	31.0	5,900	6,400
85							24.5	5,000	5,500
90							13.5	4,100	4,600
Min.Bm. Ang./Cap.	0.0	7,600	8,100	0.0	5,400	5,900	0.0	3,900	4,400
Radius (ft)	73.0			83.0			91.7		

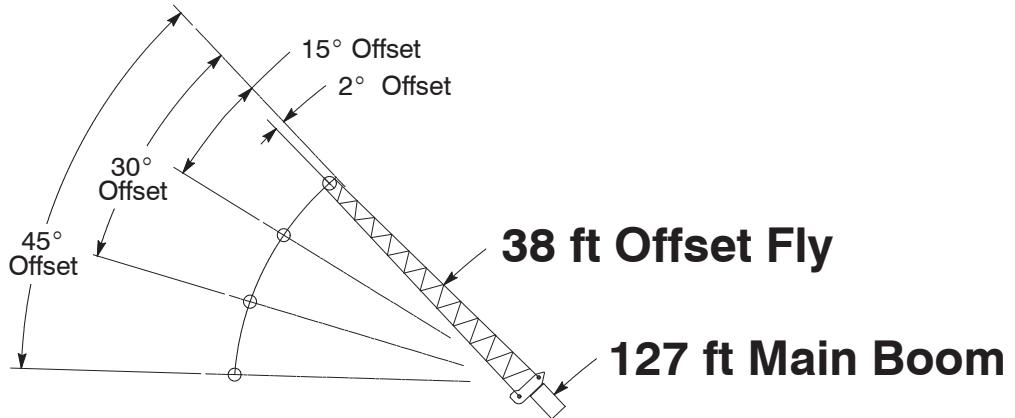
**Fixed Boom Lengths
Rated Lifting Capacities
In Pounds
See Operation Note 10.**



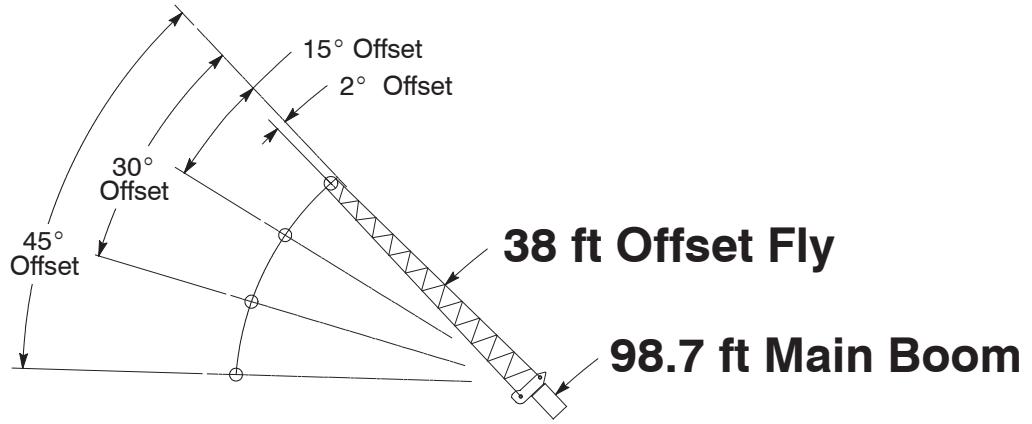
7,200 lb

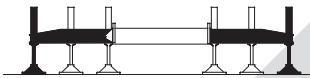
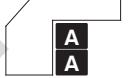
Load Radius (ft)	41.0 ft			47.0 ft		
	24°	360°	Over Rear	24°	360°	Over Rear
10	70.0	133,300	133,300	73.0	110,700	110,700
12	66.5	109,600	109,600	70.0	105,000	105,000
15	62.0	85,600	85,600	66.0	87,000	87,000
20	53.0	61,400	61,400	59.0	62,800	62,800
25	43.0	46,700	46,700	51.0	48,100	48,100
30	30.0	36,900	36,900	42.0	38,300	38,300
35				30.5	29,400	29,400
Min.Bm. Ang./Cap.	0.0	25,500	25,500	0.0	18,900	18,900
Radius (ft)		34.0			40.0	

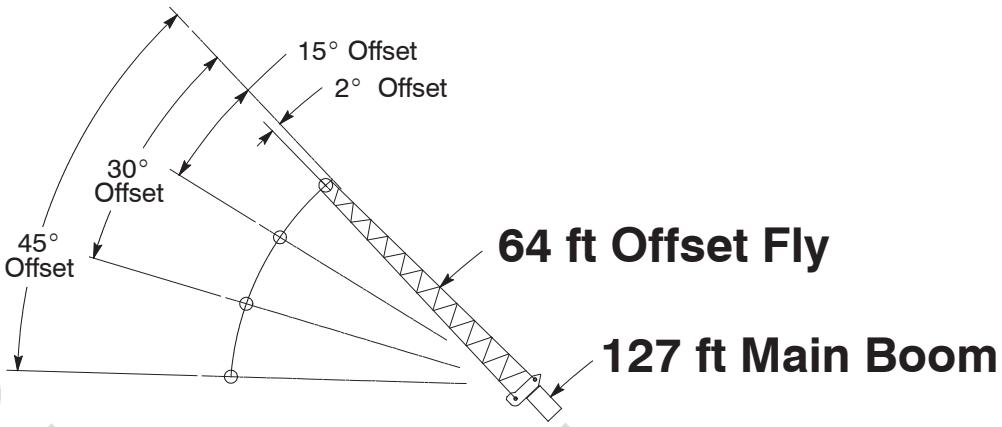
Load Radius (ft)	61.3 ft			76.0 ft		
	24°	360°	Over Rear	24°	360°	Over Rear
10	77.5	106,900	106,900			
12	75.5	106,900	106,900	79.0	81,000	81,000
15	72.5	88,200	88,200	77.0	77,400	77,400
20	67.5	64,100	64,100	73.0	63,900	63,900
25	62.0	49,500	49,500	68.5	49,400	49,400
30	56.0	39,600	39,600	64.5	39,600	39,600
35	50.0	30,900	30,900	59.5	30,700	30,700
40	43.0	24,500	24,500	55.0	24,400	24,400
45	35.0	19,800	19,900	50.0	19,600	19,800
50	25.0	16,100	16,300	44.5	16,000	16,400
55				38.5	13,200	13,700
60				31.0	11,100	11,500
65				21.5	9,200	9,700
Min.Bm. Ang./Cap.	0.0	13,600	13,700	0.0	7,900	8,500
Radius (ft)		54.3			69.0	



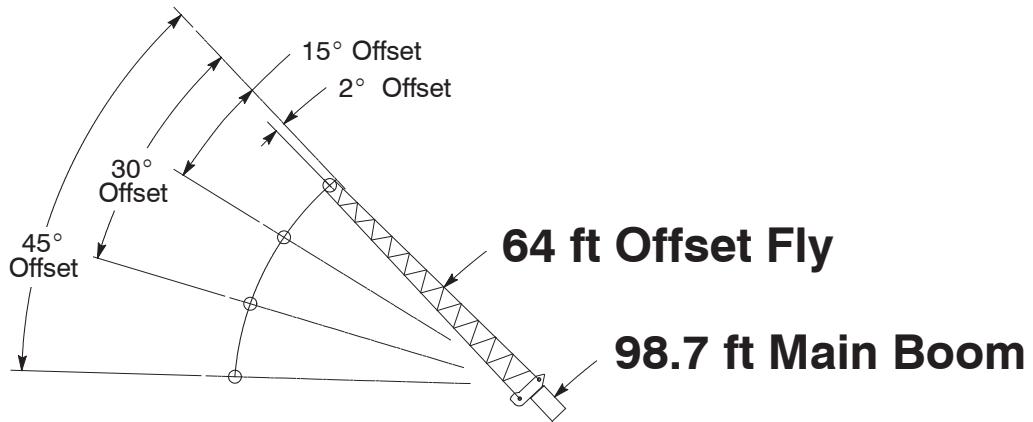
Rated Lifting Capacities In Pounds			Full		A		EM	
Load Radius (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	2° °	360°	15° °	360°	30° °	360°	45° °	360°
35	79.5	10,900						
40	78.0	10,900						
45	76.5	10,900	79.5	10,400				
50	75.0	10,900	78.0	10,300				
55	73.5	10,900	76.5	10,100	79.5	9,100		
60	72.0	10,900	75.0	9,900	77.5	8,900		
65	70.5	10,700	73.0	9,700	76.0	8,700	78.0	8,100
70	68.5	9,900	71.5	9,500	74.0	8,600	76.5	8,000
75	66.0	8,500	69.5	9,200	72.5	8,500	74.5	7,900
80	64.0	7,400	67.0	8,000	70.5	8,300	72.5	7,700
85	61.5	6,500	65.0	7,000	68.0	7,500	70.5	7,700
90	59.0	5,600	62.5	6,100	65.5	6,600	68.0	6,900
95	57.0	4,900	60.0	5,300	63.0	5,800	65.5	6,100
100	54.5	4,300	57.5	4,600	60.5	5,000	62.5	5,300
105	52.0	3,700	55.0	4,000	58.0	4,400	60.0	4,600
110	49.0	3,200	52.5	3,500	55.0	3,800	57.0	4,000
115	46.5	2,700	49.5	3,000	52.0	3,200	53.5	3,400
120	43.5	2,300	46.5	2,500	49.0	2,800	50.5	2,900
125	40.5	1,900	43.5	2,100	46.0	2,300	47.0	2,400
130	37.0	1,500	40.0	1,700	42.5	1,900		
135	33.5	1,200	36.5	1,400	38.5	1,500		
140			32.5	1,100	34.0	1,200		
Min.Bm. Ang./Cap.	29.5		29.0		30.0		29.0	
Radius (ft)	140.0		143.3		143.8		143.3	
Maximum Boom Length At 0° Boom Angle (ft)	107							

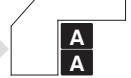


Rated Lifting Capacities In Pounds				Full				7,200 lb	
Load Radius (ft)	2° Offset		15° Offset		30° Offset		45° Offset		
	2° °	360°	15° °	360°	30° °	360°	45° °	360°	
30	78.0	16,200							
35	76.0	15,600							
40	74.0	14,900	77.0	12,500					
45	72.0	14,300	75.0	12,000	78.5	10,100			
50	69.5	13,600	73.0	11,500	76.5	9,800			
55	67.5	13,000	70.5	11,100	74.0	9,500	77.0	8,600	
60	65.0	12,500	68.5	10,700	72.0	9,300	74.5	8,400	
65	62.5	11,200	66.0	10,300	69.5	9,000	72.0	8,300	
70	60.0	9,600	63.5	10,000	67.0	8,800	69.5	8,100	
75	57.0	8,300	61.0	8,900	64.5	8,600	67.0	8,000	
80	54.5	7,200	58.0	7,700	61.5	8,300	64.0	7,900	
85	51.5	6,200	55.0	6,700	58.5	7,200	61.0	7,600	
90	48.5	5,400	52.0	5,800	55.5	6,300	57.5	6,500	
95	45.0	4,700	48.5	5,100	52.0	5,400	54.0	5,600	
100	41.5	4,000	45.0	4,400	48.0	4,700	50.0	4,800	
105	38.0	3,500	41.5	3,700	44.5	4,000	45.5	4,100	
110	34.0	2,900	37.5	3,200	40.0	3,400			
115	29.5	2,500	32.5	2,700	35.0	2,800			
120	24.0	2,100	27.0	2,200					
125	17.0	1,700	20.0	1,800					
Min.Bm. Ang./Cap.	0.0	1,400	0.0	1,400	0.0	1,500	0.0	1,600	
Radius (ft)	129.7		129.3		127.0		122.9		

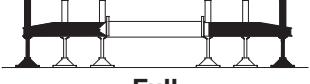
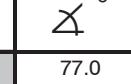
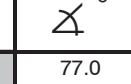
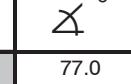


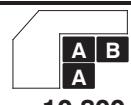
Rated Lifting Capacities In Pounds					A		EM 1	
Load Radius (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	°	360°	°	360°	°	360°	°	360°
45	79.5	7,300						
50	78.5	7,300						
55	77.0	7,200						
60	76.0	7,100						
65	74.5	6,900	79.0	6,100				
70	73.0	6,800	77.5	6,000				
75	72.0	6,600	76.0	5,800				
80	70.5	6,500	74.5	5,600	79.0	4,900		
85	69.0	6,300	73.0	5,500	77.5	4,800		
90	67.5	6,100	71.5	5,300	76.0	4,700	79.5	4,200
95	65.5	5,500	70.0	5,200	74.0	4,600	78.0	4,200
100	63.5	4,900	68.5	5,100	72.5	4,500	76.0	4,100
105	61.5	4,300	66.5	4,900	71.0	4,400	74.5	4,100
110	59.5	3,700	64.5	4,300	69.0	4,300	72.5	4,100
115	57.5	3,300	62.5	3,800	67.0	4,200	70.5	4,000
120	55.5	2,800	60.5	3,300	65.0	3,900	68.5	3,900
125	53.5	2,400	58.0	2,900	62.5	3,400	66.5	3,700
130	51.5	2,100	56.0	2,500	60.5	2,900	63.5	3,200
135	49.0	1,700	53.5	2,100	58.0	2,500	61.0	2,800
140	47.0	1,400	51.5	1,800	55.5	2,100	58.0	2,400
145	45.0	1,100	49.0	1,500	53.0	1,800	55.0	2,000
150			46.5	1,200	50.0	1,500	52.0	1,600
155					47.5	1,100	48.5	1,200
Min.Bm. Ang./Cap.	42.5		44.0		44.5		45.0	
Radius (ft)	150.0		155.0		158.3		160.0	
Maximum Boom Length At 0° Boom Angle (ft)	99							



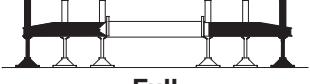
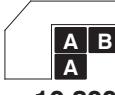
Rated Lifting Capacities In Pounds				Full				A A		7,200 lb			
Load Radius (ft)	2° Offset		15° Offset		30° Offset		45° Offset						
	2° Offset	360°	15° Offset	360°	30° Offset	360°	45° Offset	360°	2° Offset	360°	15° Offset	360°	
35	79.5	10,300											
40	77.5	9,900											
45	76.0	9,400											
50	74.5	9,000	79.5	7,400									
55	72.5	8,500	77.5	7,000									
60	71.0	8,100	76.0	6,700									
65	69.0	7,700	74.0	6,400	79.5	5,400							
70	67.0	7,300	72.0	6,200	77.5	5,200							
75	65.5	7,000	70.0	5,900	75.5	5,100							
80	63.5	6,700	68.5	5,700	73.5	4,900	78.0	4,400					
85	61.5	6,400	66.5	5,500	71.5	4,800	76.0	4,300					
90	59.5	6,100	64.5	5,300	69.5	4,700	73.5	4,300					
95	57.0	5,600	62.0	5,100	67.0	4,600	71.5	4,200					
100	55.0	4,900	60.0	5,000	65.0	4,500	69.0	4,200					
105	52.5	4,300	57.5	4,800	62.5	4,400	66.5	4,100					
110	50.0	3,800	55.0	4,300	60.0	4,300	63.5	4,100					
115	47.0	3,300	52.5	3,800	57.5	4,200	61.0	4,100					
120	44.5	2,900	49.5	3,300	54.5	3,700	57.5	4,000					
125	41.5	2,500	46.5	2,900	51.5	3,200	54.0	3,400					
130	39.0	2,100	43.5	2,400	48.0	2,800	50.0	2,900					
135	35.5	1,800	40.5	2,100	44.0	2,300	45.0	2,400					
140	32.0	1,500	36.5	1,700	40.0	1,900							
145	28.0	1,200	32.5	1,400	34.5	1,500							
150		26.5	26.5	1,100									
Min.Bm. Ang./Cap.	22.5		19.0		20.0		36.0						
Radius (ft)	150.0		153.2		151.7		145.5						
Maximum Boom Length At 0° Boom Angle (ft)	98												

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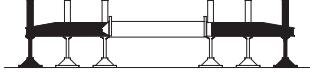
Rated Lifting Capacities In Pounds								Full				10,800 lb						
Load Radius (ft)	41.0 ft			50.0 ft			60.0 ft				360°	Over Rear	 °	360°	Over Rear	 °	360°	Over Rear
	 °	360°	Over Rear	 °	360°	Over Rear	 °	360°	Over Rear									
10	70.0	137,100	137,100	74.0	89,000	89,000	77.0	62,900	62,900									
12	66.5	113,100	113,100	71.5	87,100	87,100	75.0	58,500	58,500									
15	62.0	88,500	88,500	68.0	80,000	80,000	72.0	53,000	53,000									
20	53.0	63,600	63,600	61.0	65,500	65,500	67.0	45,700	45,700									
25	43.0	48,500	48,500	54.0	50,400	50,400	61.5	40,200	40,200									
30	30.0	38,300	38,300	46.0	40,300	40,300	55.5	35,900	35,900									
35				36.5	32,700	32,700	49.0	32,400	32,400									
40				24.0	25,800	25,800	42.0	27,400	27,400									
45							33.5	22,400	22,400									
50							22.0	18,600	18,600									
Min.Bm. Ang./Cap.	0.0	25,500	25,500	0.0	16,600	16,600	0.0	11,500	11,500									
Radius (ft)	34.0			43.0			53.0											
Load Radius (ft)	70.0 ft			80.0 ft			90.0 ft				360°	Over Rear	 °	360°	Over Rear	 °	360°	Over Rear
	 °	360°	Over Rear	 °	360°	Over Rear	 °	360°	Over Rear									
10	79.0	49,800	49,800															
12	77.5	46,500	46,500	79.5	42,400	42,400												
15	75.0	42,200	42,200	77.5	42,400	42,400	79.0	36,700	36,700									
20	70.5	36,400	36,400	73.5	37,900	37,900	76.0	36,700	36,700									
25	66.0	31,900	31,900	70.0	33,800	33,800	73.0	34,500	34,500									
30	61.5	28,400	28,400	66.0	30,300	30,300	69.5	30,700	30,700									
35	56.5	25,600	25,600	62.0	27,500	27,500	66.0	27,700	27,700									
40	51.5	23,200	23,200	57.5	25,200	25,200	62.5	25,200	25,200									
45	45.5	21,300	21,300	53.0	23,200	23,200	58.5	23,100	23,100									
50	39.0	19,600	19,600	48.0	19,900	19,900	54.5	20,100	20,100									
55	31.0	16,600	16,600	42.5	16,900	17,000	50.0	17,000	17,200									
60	20.5	14,100	14,300	36.5	14,400	14,600	45.5	14,600	14,800									
65				29.0	12,500	12,700	40.5	12,700	12,900									
70				19.0	10,800	11,100	34.5	11,100	11,300									
75							27.5	9,600	9,900									
80							18.0	8,400	8,700									
Min.Bm. Ang./Cap.	0.0	8,600	8,600	0.0	7,300	7,300	0.0	6,200	6,200									
Radius (ft)	63.0			73.0			83.0											

Rated Lifting Capacities In Pounds						
Load Radius (ft)	100.0 ft			110.0 ft		
	24°	360°	Over Rear	24°	360°	Over Rear
20	77.5	30,700	30,700	79.0	29,100	29,100
25	75.0	30,700	30,700	77.0	29,100	29,100
30	72.0	28,400	28,400	74.5	29,100	29,100
35	69.0	25,700	25,700	72.0	26,600	26,600
40	66.0	23,400	23,400	69.0	24,400	24,400
45	62.5	21,400	21,400	66.0	22,500	22,500
50	59.5	19,700	19,700	63.0	19,800	19,800
55	55.5	17,100	17,200	60.0	16,800	16,900
60	51.5	14,600	14,900	56.5	14,400	14,600
65	47.5	12,700	12,900	53.0	12,500	12,700
70	43.0	11,100	11,400	49.5	10,800	11,200
75	38.5	9,700	10,000	45.5	9,500	9,800
80	33.0	8,500	8,800	41.5	8,300	8,700
85	26.5	7,500	7,800	36.5	7,300	7,600
90	17.5	6,600	6,900	31.5	6,400	6,700
95				25.5	5,600	5,900
100				16.5	4,900	5,200
Min.Bm. Ang./Cap.	0.0	5,200	5,200	0.0	4,200	4,200
Radius (ft)	93.0			103.0		

Load Radius (ft)	120.0 ft			127.0 ft		
	24°	360°	Over Rear	24°	360°	Over Rear
25	78.5	25,500	25,500	79.0	22,600	22,600
30	76.5	25,500	25,500	77.0	22,600	22,600
35	74.0	25,500	25,500	75.5	22,600	22,600
40	72.0	25,000	25,000	73.5	22,600	22,600
45	69.5	23,200	23,200	71.0	22,600	22,600
50	66.5	19,600	19,600	68.5	19,500	19,500
55	63.5	16,600	16,700	65.5	16,400	16,600
60	60.5	14,100	14,400	63.0	14,000	14,200
65	57.5	12,300	12,600	60.0	12,100	12,500
70	54.0	10,600	11,000	57.0	10,500	10,900
75	51.0	9,300	9,600	54.0	9,100	9,500
80	47.5	8,100	8,500	51.0	8,000	8,400
85	43.5	7,100	7,500	47.5	7,000	7,400
90	39.5	6,200	6,600	44.0	6,100	6,500
95	35.5	5,400	5,800	40.5	5,300	5,700
100	30.5	4,700	5,100	36.5	4,600	5,000
105	24.5	4,100	4,400	32.0	4,000	4,400
110	16.5	3,500	3,900	26.5	3,400	3,800
115				19.5	2,900	3,300
Min.Bm. Ang./Cap.	0.0	3,300	3,300	0.0	2,500	2,700
Radius (ft)	113.0			120.0		

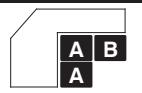
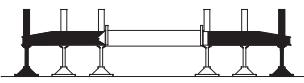
Rated Lifting Capacities In Pounds										10,800 lb		
Load Radius (ft)	41.0 ft			50.0 ft			60.0 ft			70.0 ft		
	 °	360°	Over Rear	 °	360°	Over Rear	 °	360°	Over Rear	 °	360°	Over Rear
10	70.0	137,100	137,100	74.0	89,000	89,000	77.0	77,000	77,000	79.5	74,000	74,000
12	66.5	113,100	113,100	71.5	87,100	87,100	75.0	72,200	72,200	77.5	74,000	74,000
15	62.0	88,500	88,500	68.0	80,000	80,000	72.0	66,000	66,000	75.0	68,500	68,500
20	53.0	63,600	63,600	61.0	65,500	65,500	67.0	57,800	57,800	71.0	60,800	60,800
25	43.0	48,500	48,500	54.0	50,400	50,400	61.5	51,400	51,400	66.5	52,000	52,000
30	30.0	38,300	38,300	46.0	40,300	40,300	55.5	41,400	41,400	61.5	41,900	41,900
35				36.5	32,700	32,700	49.0	33,900	33,900	56.5	34,400	34,400
40				24.0	25,800	25,800	42.0	27,100	27,100	51.0	27,600	27,600
45							33.5	22,100	22,100	45.5	22,700	22,700
50							21.5	18,300	18,300	38.5	18,900	18,900
55										31.0	15,900	16,000
60										20.0	13,500	13,600
Min.Bm. Ang./Cap.	0.0	25,500	25,500	0.0	16,600	16,600	0.0	12,400	12,400	0.0	10,300	10,300
Radius (ft)	34.0			43.0			53.0			63.0		

Load Radius (ft)	80.0 ft			90.0 ft			100.0 ft			113.1 ft		
	 °	360°	Over Rear	 °	360°	Over Rear	 °	360°	Over Rear	 °	360°	Over Rear
12	79.5	57,000	57,000									
15	77.5	51,900	51,900	79.5	48,700	48,700						
20	73.5	44,900	44,900	76.0	42,800	42,800	78.5	42,500	42,500			
25	70.0	39,500	39,500	73.0	38,100	38,100	75.5	38,300	38,300	78.0	32,800	32,800
30	66.0	35,100	35,100	69.5	34,100	34,100	72.5	34,800	34,800	75.5	32,100	32,100
35	62.0	31,600	31,600	66.0	30,800	30,800	69.5	31,500	31,500	73.0	29,200	29,200
40	57.5	27,900	27,900	62.5	27,800	27,800	66.0	27,600	27,600	70.5	26,700	26,700
45	53.0	23,000	23,000	58.5	23,000	23,000	62.5	22,800	22,800	67.5	22,500	22,500
50	48.0	19,300	19,300	54.0	19,300	19,300	59.0	19,100	19,100	64.0	18,800	18,800
55	42.5	16,300	16,400	50.0	16,200	16,400	55.5	16,000	16,200	61.0	15,800	16,000
60	36.5	13,900	14,000	45.0	13,800	14,100	51.5	13,600	13,900	57.5	13,400	13,700
65	29.0	11,900	12,200	40.0	11,900	12,200	47.5	11,700	12,100	54.5	11,500	11,900
70	19.0	10,200	10,500	34.5	10,300	10,600	43.0	10,100	10,500	51.0	9,900	10,300
75				27.5	8,900	9,200	38.0	8,700	9,100	47.0	8,500	8,900
80				18.0	7,700	8,000	32.5	7,600	7,900	43.5	7,400	7,800
85							26.0	6,500	6,900	39.0	6,400	6,800
90							17.0	5,600	6,000	34.5	5,500	5,900
95										29.0	4,700	5,100
100										22.0	4,000	4,400
105										11.5	3,400	3,800
Min.Bm. Ang./Cap.	0.0	8,500	8,500	0.0	6,900	6,900	0.0	5,200	5,500	0.0	3,300	3,600
Radius (ft)	73.0			83.0			93.0			106.1		

Rated Lifting Capacities In Pounds						Full				10,800 lb			
Load Radius (ft)	41.0 ft			50.0 ft			60.0 ft			70.0 ft			
	 °	360°	Over Rear	 °	360°	Over Rear	 °	360°	Over Rear	 °	360°	Over Rear	
10	70.0	137,100	137,100	74.0	89,000	89,000	77.0	77,000	77,000	79.5	74,400	74,400	
12	66.5	113,100	113,100	71.5	87,100	87,100	75.0	72,200	72,200	77.5	74,300	74,300	
15	62.0	88,500	88,500	68.0	80,000	80,000	72.0	66,000	66,000	75.0	68,700	68,700	
20	53.0	63,600	63,600	61.0	65,500	65,500	67.0	57,800	57,800	71.0	60,900	60,900	
25	43.0	48,500	48,500	54.0	50,400	50,400	61.5	51,400	51,400	66.5	51,900	51,900	
30	30.0	38,300	38,300	46.0	40,300	40,300	55.5	41,400	41,400	61.5	41,900	41,900	
35				36.5	32,700	32,700	49.0	33,900	33,900	56.5	34,300	34,300	
40				24.0	25,800	25,800	42.0	27,100	27,100	51.0	27,500	27,500	
45							33.5	22,100	22,100	45.5	22,700	22,700	
50							21.5	18,300	18,300	38.5	18,900	18,900	
55										31.0	15,900	16,000	
60										20.0	13,400	13,600	
Min.Bm. Ang./Cap.	0.0	25,500	25,500	0.0	16,600	16,600	0.0	12,400	12,400	0.0	10,200	10,200	
Radius (ft)	34.0			43.0			53.0			63.0			

Load Radius (ft)	80.0 ft			90.0 ft			98.7 ft		
	 °	360°	Over Rear	 °	360°	Over Rear	 °	360°	Over Rear
12	79.5	62,800	62,800						
15	77.5	62,800	62,800	79.5	61,400	61,400			
20	74.0	62,800	62,800	76.5	57,100	57,100	78.0	47,900	47,900
25	70.0	51,700	51,700	73.0	49,900	49,900	75.5	42,500	42,500
30	66.0	41,700	41,700	69.5	41,600	41,600	72.5	38,100	38,100
35	61.5	34,100	34,100	66.0	33,900	33,900	69.0	33,800	33,800
40	57.5	27,300	27,300	62.0	27,100	27,100	65.5	26,900	26,900
45	52.5	22,500	22,500	58.0	22,300	22,300	62.0	22,200	22,200
50	47.5	18,700	18,800	54.0	18,600	18,600	58.5	18,400	18,500
55	42.0	15,700	15,900	49.5	15,500	15,700	54.5	15,400	15,600
60	36.0	13,300	13,500	45.0	13,100	13,400	50.5	13,000	13,300
65	29.0	11,400	11,600	40.0	11,200	11,600	46.5	11,100	11,500
70	18.5	9,700	10,000	34.0	9,600	10,000	42.0	9,500	9,900
75				27.5	8,200	8,600	37.0	8,200	8,500
80				18.0	7,000	7,400	31.5	7,000	7,400
85							24.5	6,000	6,400
90							14.0	5,100	5,500
Min.Bm. Ang./Cap.	0.0	8,200	8,200	0.0	6,400	6,500	0.0	4,800	5,200
Radius (ft)	73.0			83.0			91.7		

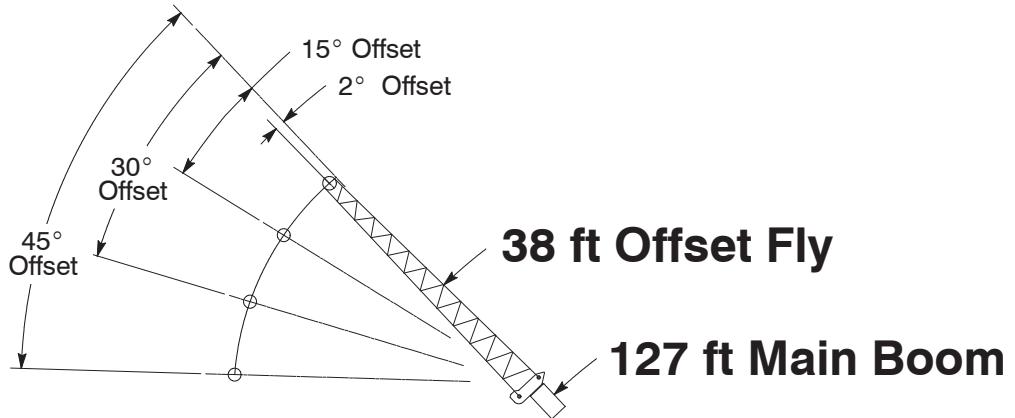
**Fixed Boom Lengths
Rated Lifting Capacities
In Pounds
See Operation Note 10.**

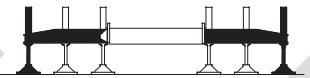


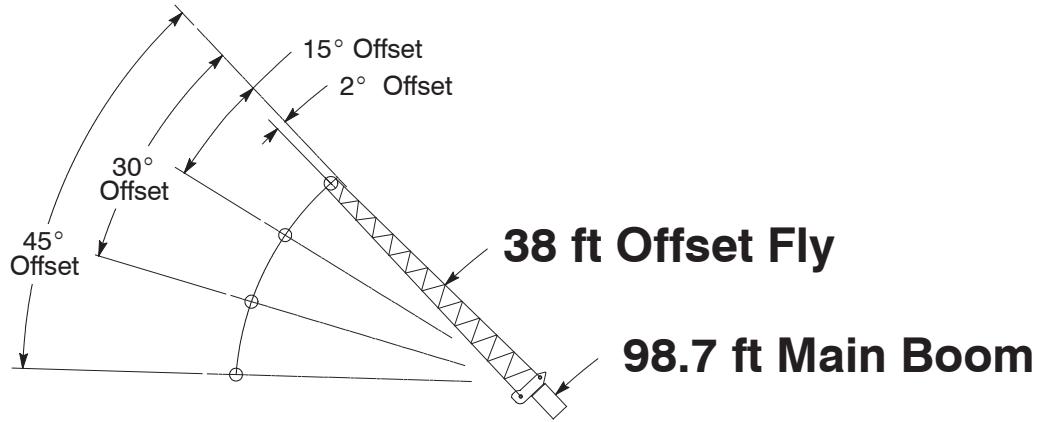
10,800 lb

Load Radius (ft)	41.0 ft			47.0 ft		
	\times°	360°	Over Rear	\times°	360°	Over Rear
10	70.0	137,100	137,100	73.0	110,700	110,700
12	66.5	113,100	113,100	70.0	105,000	105,000
15	62.0	88,500	88,500	66.0	89,900	89,900
20	53.0	63,600	63,600	59.0	64,900	64,900
25	43.0	48,500	48,500	51.0	49,900	49,900
30	30.0	38,300	38,300	42.0	39,700	39,700
35				30.5	32,000	32,000
Min.Bm. Ang./Cap.	0.0	25,500	25,500	0.0	18,900	18,900
Radius (ft)		34.0			40.0	

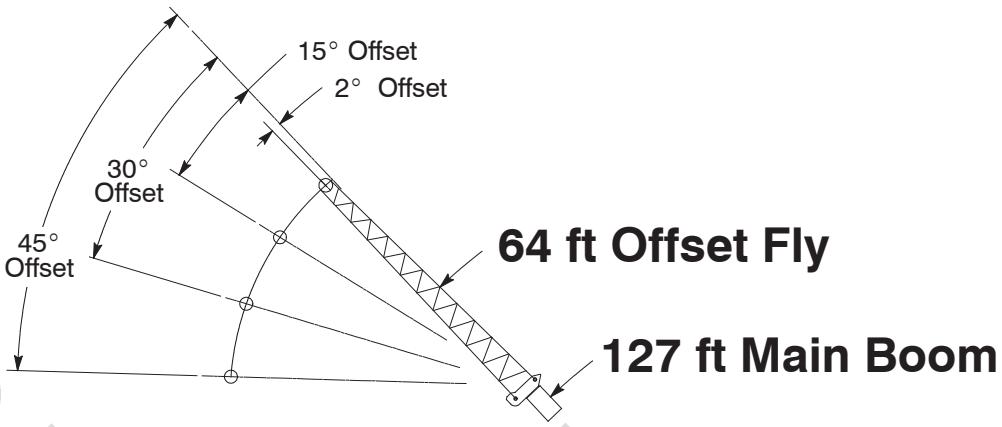
Load Radius (ft)	61.3 ft			76.0 ft		
	\times°	360°	Over Rear	\times°	360°	Over Rear
10	77.5	106,900	106,900			
12	75.5	106,900	106,900	79.0	81,000	81,000
15	72.5	90,900	90,900	77.0	77,400	77,400
20	67.5	66,100	66,100	73.0	66,000	66,000
25	62.0	51,200	51,200	68.5	51,100	51,100
30	56.0	41,000	41,000	64.5	41,000	41,000
35	50.0	33,500	33,500	60.0	33,300	33,300
40	43.0	26,700	26,700	55.0	26,500	26,500
45	35.0	21,800	21,800	50.0	21,700	21,700
50	25.0	18,000	18,000	44.5	18,000	18,100
55				38.5	15,000	15,100
60				31.0	12,600	12,800
65				21.5	10,600	10,900
Min.Bm. Ang./Cap.	0.0	13,700	13,700	0.0	9,200	9,500
Radius (ft)		54.3			69.0	

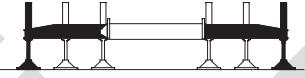


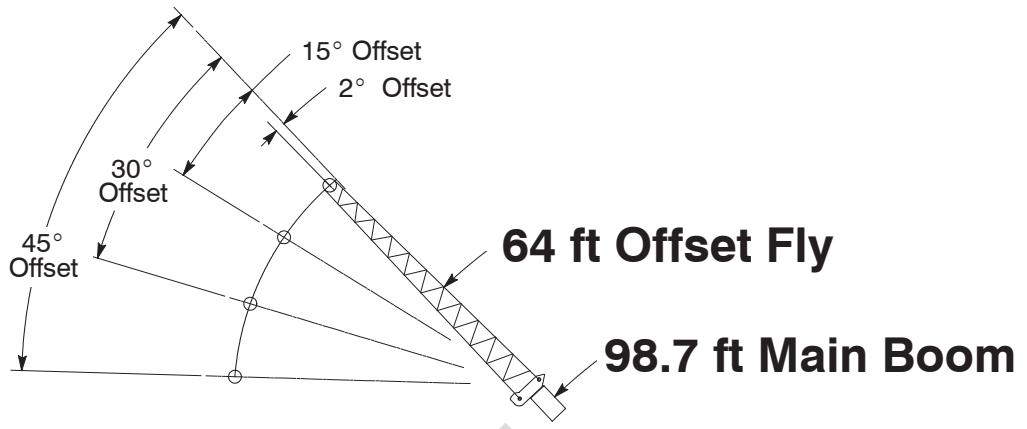
Rated Lifting Capacities In Pounds				Full				A B A		10,800 lb		
Load Radius (ft)	2° Offset		15° Offset		30° Offset		45° Offset					
	°	360°	°	360°	°	360°	°	360°				
35	79.5	10,900										
40	78.0	10,900										
45	76.5	10,900	79.5	10,400								
50	75.0	10,900	78.0	10,300								
55	73.5	10,900	76.5	10,100	79.5	9,100						
60	72.0	10,900	75.0	9,900	77.5	8,900						
65	70.5	10,700	73.0	9,700	76.0	8,700	78.0	8,100				
70	69.0	10,500	71.5	9,500	74.0	8,600	76.5	8,000				
75	67.0	9,700	69.5	9,300	72.5	8,500	74.5	7,900				
80	64.5	8,500	67.5	9,000	70.5	8,300	72.5	7,700				
85	62.0	7,500	65.5	8,000	68.5	8,000	70.5	7,700				
90	59.5	6,600	63.0	7,100	66.5	7,500	68.5	7,400				
95	57.5	5,800	60.5	6,200	63.5	6,700	66.0	7,000				
100	55.0	5,100	58.0	5,500	61.0	5,900	63.5	6,100				
105	52.5	4,500	55.5	4,800	58.5	5,200	60.5	5,400				
110	49.5	3,900	53.0	4,200	55.5	4,500	57.5	4,700				
115	47.0	3,400	50.0	3,700	52.5	4,000	54.5	4,100				
120	44.0	3,000	47.0	3,200	49.5	3,500	51.0	3,600				
125	41.0	2,500	44.0	2,800	46.5	3,000	47.5	3,100				
130	38.0	2,200	41.0	2,400	43.0	2,500						
135	34.5	1,800	37.0	2,000	39.0	2,100						
140	30.5	1,500	33.0	1,600	35.0	1,700						
145	26.0	1,200	28.5	1,300	30.0	1,400						
150			23.0	1,000								
Min.Bm. Ang./Cap.	20.0		21.0		17.0		15.0					
Radius (ft)	150.0		151.7		150.9		147.0					
Maximum Boom Length At 0° Boom Angle (ft)		114										



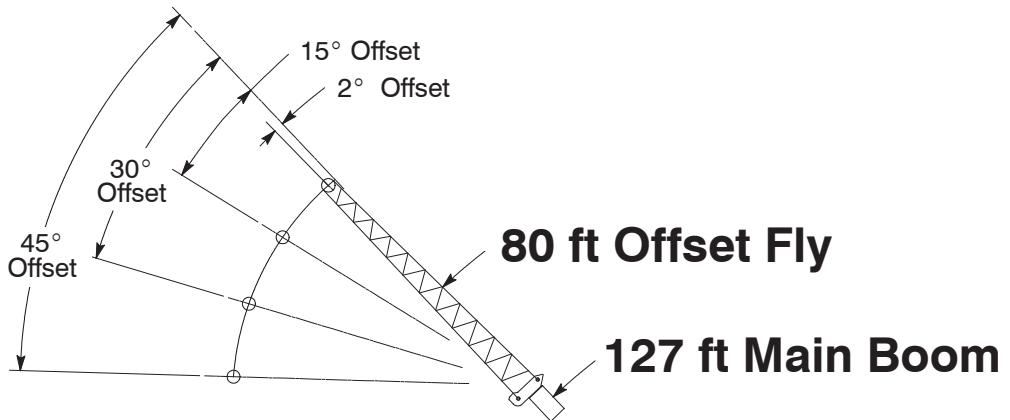
Rated Lifting Capacities In Pounds								
Load Radius (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	2° °	360°	15° °	360°	30° °	360°	45° °	360°
30	78.0	16,200						
35	76.0	15,600						
40	74.0	14,900	77.0	12,500				
45	72.0	14,300	75.0	12,000	78.5	10,100		
50	69.5	13,600	73.0	11,500	76.5	9,800		
55	67.5	13,000	70.5	11,100	74.0	9,500	77.0	8,600
60	65.0	12,500	68.5	10,700	72.0	9,300	74.5	8,400
65	63.0	11,900	66.0	10,300	69.5	9,000	72.0	8,300
70	60.5	10,900	63.5	10,000	67.0	8,800	69.5	8,100
75	57.5	9,500	61.0	9,700	64.5	8,600	67.0	8,000
80	54.5	8,300	58.5	8,800	62.0	8,500	64.0	7,900
85	51.5	7,300	55.5	7,800	59.0	8,200	61.0	7,800
90	48.5	6,400	52.5	6,800	55.5	7,200	58.0	7,500
95	45.5	5,600	49.0	6,000	52.5	6,300	54.5	6,500
100	42.0	4,900	45.5	5,200	48.5	5,500	50.5	5,700
105	38.5	4,300	42.0	4,600	44.5	4,800	46.0	4,900
110	34.5	3,700	37.5	4,000	40.5	4,200		
115	30.0	3,200	33.0	3,400	35.5	3,600		
120	24.5	2,800	27.5	2,900				
125	17.5	2,300	20.5	2,400				
Min.Bm. Ang./Cap.	0.0	1,900	0.0	1,900	0.0	2,100	0.0	2,300
Radius (ft)	129.7		129.3		127.0		122.9	



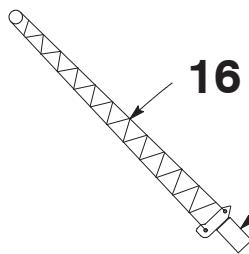
Rated Lifting Capacities In Pounds							EM 1	10,800 lb
Load Radius (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	°	360°	°	360°	°	360°	°	360°
45	79.5	7,300						
50	78.5	7,300						
55	77.0	7,200						
60	76.0	7,100						
65	74.5	6,900	79.0	6,100				
70	73.0	6,800	77.5	6,000				
75	72.0	6,600	76.0	5,800				
80	70.5	6,500	74.5	5,600	79.0	4,900		
85	69.0	6,300	73.0	5,500	77.5	4,800		
90	67.5	6,100	71.5	5,300	76.0	4,700	79.5	4,200
95	66.0	5,900	70.0	5,200	74.0	4,600	78.0	4,200
100	64.5	5,700	68.5	5,100	72.5	4,500	76.0	4,100
105	62.0	5,100	66.5	4,900	71.0	4,400	74.5	4,100
110	60.0	4,500	65.0	4,700	69.0	4,300	72.5	4,100
115	58.0	4,000	63.0	4,500	67.0	4,200	70.5	4,000
120	56.0	3,500	61.0	4,000	65.0	4,000	68.5	3,900
125	54.0	3,100	58.5	3,600	63.0	3,900	66.5	3,800
130	51.5	2,700	56.5	3,100	61.0	3,600	64.0	3,600
135	49.5	2,300	54.0	2,700	58.5	3,100	61.5	3,400
140	47.0	2,000	51.5	2,400	56.0	2,700	58.5	2,900
145	45.0	1,700	49.5	2,000	53.0	2,300	55.5	2,500
150	42.5	1,400	46.5	1,700	50.5	2,000	52.5	2,100
155	40.0	1,200	44.0	1,400	47.5	1,700	49.0	1,700
160			41.5	1,200	44.5	1,300	45.0	1,400
165					41.0	1,000		
Min.Bm. Ang./Cap.	37.5		38.5		39.0		39.5	
Radius (ft)	160.0		165.0		167.5		166.3	
Maximum Boom Length At 0° Boom Angle (ft)		105						



Load Radius (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	2° Offset °	360°	15° Offset °	360°	30° Offset °	360°	45° Offset °	360°
35	79.5	10,300						
40	77.5	9,900						
45	76.0	9,400						
50	74.5	9,000	79.5	7,400				
55	72.5	8,500	77.5	7,000				
60	71.0	8,100	76.0	6,700				
65	69.0	7,700	74.0	6,400	79.5	5,400		
70	67.0	7,300	72.0	6,200	77.5	5,200		
75	65.5	7,000	70.0	5,900	75.5	5,100		
80	63.5	6,700	68.5	5,700	73.5	4,900	78.0	4,400
85	61.5	6,400	66.5	5,500	71.5	4,800	76.0	4,300
90	59.5	6,100	64.5	5,300	69.5	4,700	73.5	4,300
95	57.5	5,800	62.0	5,100	67.0	4,600	71.5	4,200
100	55.0	5,600	60.0	5,000	65.0	4,500	69.0	4,200
105	52.5	5,100	57.5	4,800	62.5	4,400	66.5	4,100
110	50.0	4,500	55.5	4,700	60.0	4,300	63.5	4,100
115	47.5	4,000	53.0	4,500	57.5	4,200	61.0	4,100
120	45.0	3,600	50.0	4,000	54.5	4,200	57.5	4,100
125	42.0	3,100	47.0	3,500	51.5	3,900	54.5	4,100
130	39.0	2,700	44.0	3,100	48.0	3,400	50.0	3,500
135	35.5	2,400	40.5	2,700	44.5	2,900	45.5	3,000
140	32.0	2,100	36.5	2,300	40.0	2,500		
145	28.0	1,800	32.5	2,000	34.5	2,100		
150	22.5	1,500	26.5	1,600				
155	13.5	1,200						
Min.Bm. Ang./Cap.	0.0	1,100	0.0	1,100	0.0	1,200	0.0	1,400
Radius (ft)	155.7		154.9		151.5		145.5	



Rated Lifting Capacities In Pounds									EM 1
Load Radius (ft)	2° Offset		15° Offset		30° Offset		45° Offset		
	°	360°	°	360°	°	360°	°	360°	
50	79.0	5,800							
55	78.0	5,800							
60	77.0	5,800							
65	76.0	5,800	79.5	5,600					
70	75.0	5,800	78.0	5,300					
75	73.5	5,800	76.5	5,000					
80	72.0	5,500	75.5	4,700	79.0	3,900			
85	71.0	5,200	74.0	4,400	78.0	3,700			
90	69.5	4,900	72.5	4,200	76.5	3,500	80.0	3,100	
95	68.0	4,600	71.0	4,000	75.0	3,400	78.5	2,900	
100	66.5	4,400	69.5	3,800	73.5	3,200	76.5	2,800	
105	65.0	4,200	68.0	3,600	72.0	3,100	75.0	2,700	
110	63.5	4,000	66.5	3,500	70.5	2,900	73.5	2,600	
115	62.0	3,800	65.0	3,300	68.5	2,800	72.0	2,500	
120	60.0	3,400	63.0	3,200	67.0	2,700	70.0	2,500	
125	58.0	2,900	61.5	3,000	65.5	2,600	68.5	2,400	
130	56.0	2,500	60.0	2,900	63.5	2,500	66.5	2,300	
135	54.0	2,200	58.0	2,600	62.0	2,500	64.5	2,300	
140	52.0	1,900	56.0	2,200	60.0	2,400	62.5	2,200	
145	50.0	1,500	54.0	1,900	58.0	2,300	60.5	2,200	
150	48.5	1,300	52.0	1,600	55.5	1,900	58.5	2,100	
155	46.5	1,000	49.5	1,300	53.5	1,600	56.0	1,800	
160			47.5	1,000	51.0	1,300	53.0	1,400	
165					48.5	1,000	50.5	1,100	
Min.Bm. Ang./Cap.	44.5		46.5		47.5		48.5		
Radius (ft)	156.7		162.5		166.7		168.3		
Maximum Boom Length At 0° Boom Angle (ft)		94							

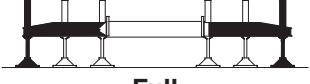


16 ft Fly Extension

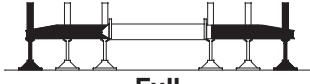
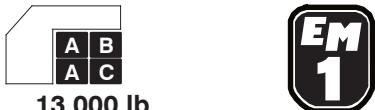
127 ft Main Boom

Rated Lifting Capacities In Pounds		
Load Radius (ft)	Full	360°
30	78.5	15,600
35	77.0	15,600
40	75.0	15,600
45	73.5	15,600
50	71.5	15,600
55	70.0	15,600
60	67.5	14,100
65	65.0	12,300
70	62.0	10,600
75	59.5	9,200
80	57.0	8,000
85	54.0	7,000
90	51.5	6,200
95	48.5	5,400
100	45.5	4,700
105	42.0	4,100
110	38.5	3,500
115	35.0	3,000
120	30.5	2,600
125	26.0	2,200
130	20.0	1,800
135	10.0	1,500
Min.Bm. Ang./Cap.	0.0	1,400
Radius (ft)		136.1

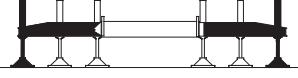
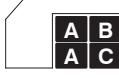
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Rated Lifting Capacities In Pounds						Full			 13,000 lb				
Load Radius (ft)	41.0 ft			50.0 ft			60.0 ft						
	45°	360°	Over Rear	45°	360°	Over Rear	45°	360°	Over Rear				
10	70.0	139,100	139,100	74.0	89,000	89,000	77.0	62,900	62,900				
12	66.5	115,100	115,100	71.5	87,100	87,100	75.0	58,500	58,500				
15	62.0	90,000	90,000	68.0	80,000	80,000	72.0	53,000	53,000				
20	53.0	64,700	64,700	61.0	66,700	66,700	67.0	45,700	45,700				
25	43.0	49,400	49,400	54.0	51,400	51,400	61.5	40,200	40,200				
30	30.0	39,100	39,100	46.0	41,100	41,100	55.5	35,900	35,900				
35				36.5	33,700	33,700	49.0	32,400	32,400				
40				24.0	27,100	27,100	42.0	28,700	28,700				
45							33.5	23,500	23,500				
50							22.0	19,600	19,600				
Min.Bm. Ang./Cap.	0.0	25,600	25,600	0.0	16,700	16,700	0.0	11,600	11,600				
Radius (ft)	34.0			43.0			53.0						

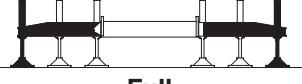
Load Radius (ft)	70.0 ft			80.0 ft			90.0 ft				
	45°	360°	Over Rear	45°	360°	Over Rear	45°	360°	Over Rear		
10	79.0	49,800	49,800								
12	77.5	46,500	46,500	79.5	42,400	42,400					
15	75.0	42,200	42,200	77.5	42,400	42,400	79.0	36,700	36,700		
20	70.5	36,400	36,400	73.5	37,900	37,900	76.0	36,700	36,700		
25	66.0	31,900	31,900	70.0	33,800	33,800	73.0	34,500	34,500		
30	61.5	28,400	28,400	66.0	30,300	30,300	69.5	30,700	30,700		
35	56.5	25,600	25,600	62.0	27,500	27,500	66.0	27,700	27,700		
40	51.5	23,200	23,200	57.5	25,200	25,200	62.5	25,200	25,200		
45	45.5	21,300	21,300	53.0	23,200	23,200	58.5	23,100	23,100		
50	39.0	19,600	19,600	48.0	20,900	20,900	54.5	21,000	21,000		
55	31.0	17,500	17,500	42.5	17,800	17,800	50.0	18,000	18,000		
60	20.5	15,000	15,000	36.5	15,300	15,400	45.5	15,500	15,600		
65				29.0	13,300	13,400	40.0	13,500	13,600		
70				19.0	11,600	11,700	34.5	11,800	12,000		
75							27.5	10,300	10,500		
80							18.0	9,100	9,300		
Min.Bm. Ang./Cap.	0.0	8,700	8,700	0.0	7,300	7,300	0.0	6,200	6,200		
Radius (ft)	63.0			73.0			83.0				

Rated Lifting Capacities In Pounds						13,000 lb
Load Radius (ft)	100.0 ft			110.0 ft		
	 °	360°	Over Rear	 °	360°	Over Rear
20	77.5	30,700	30,700	79.0	29,100	29,100
25	75.0	30,700	30,700	77.0	29,100	29,100
30	72.0	28,400	28,400	74.5	29,100	29,100
35	69.0	25,700	25,700	72.0	26,600	26,600
40	66.0	23,400	23,400	69.0	24,400	24,400
45	62.5	21,400	21,400	66.0	22,500	22,500
50	59.5	19,700	19,700	63.0	20,800	20,800
55	55.5	18,000	18,000	60.0	17,800	17,800
60	52.0	15,500	15,600	56.5	15,300	15,400
65	47.5	13,500	13,600	53.0	13,200	13,400
70	43.5	11,800	12,100	49.5	11,600	11,800
75	38.5	10,400	10,600	45.5	10,200	10,400
80	33.0	9,200	9,400	41.5	8,900	9,200
85	26.5	8,100	8,300	36.5	7,900	8,100
90	17.5	7,100	7,400	31.5	7,000	7,200
95				25.5	6,100	6,400
100				16.5	5,400	5,700
Min.Bm. Ang./Cap.	0.0	5,200	5,200	0.0	4,200	4,200
Radius (ft)	93.0			103.0		

Load Radius (ft)	120.0 ft			127.0 ft		
	 °	360°	Over Rear	 °	360°	Over Rear
25	78.5	25,500	25,500	79.0	22,600	22,600
30	76.5	25,500	25,500	77.0	22,600	22,600
35	74.0	25,500	25,500	75.5	22,600	22,600
40	72.0	25,000	25,000	73.5	22,600	22,600
45	69.5	23,200	23,200	71.0	22,600	22,600
50	66.5	20,600	20,600	68.5	20,400	20,400
55	63.5	17,600	17,600	65.5	17,400	17,400
60	60.0	15,000	15,200	63.0	14,900	15,000
65	57.5	13,000	13,200	60.0	12,800	13,000
70	54.0	11,400	11,600	57.0	11,300	11,500
75	51.0	10,000	10,200	54.0	9,800	10,100
80	47.0	8,700	9,000	51.0	8,600	8,900
85	43.5	7,700	8,000	47.5	7,600	7,900
90	40.0	6,800	7,100	44.0	6,600	7,000
95	35.0	6,000	6,200	40.5	5,800	6,100
100	30.5	5,200	5,500	36.0	5,100	5,400
105	24.5	4,600	4,900	32.0	4,500	4,800
110	16.5	4,000	4,300	26.5	3,900	4,200
115				19.5	3,400	3,700
Min.Bm. Ang./Cap.	0.0	3,300	3,300	0.0	2,700	2,700
Radius (ft)	113.0			120.0		

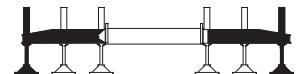
Rated Lifting Capacities In Pounds								Full				13,000 lb	
Load Radius (ft)	41.0 ft			50.0 ft			60.0 ft			70.0 ft			
	 °	360°	Over Rear	 °	360°	Over Rear	 °	360°	Over Rear	 °	360°	Over Rear	
10	70.0	139,100	139,100	74.0	89,000	89,000	77.0	77,000	77,000	79.5	74,000	74,000	
12	66.5	115,100	115,100	71.5	87,100	87,100	75.0	72,200	72,200	77.5	74,000	74,000	
15	62.0	90,000	90,000	68.0	80,000	80,000	72.0	66,000	66,000	75.0	68,500	68,500	
20	53.0	64,700	64,700	61.0	66,700	66,700	67.0	57,800	57,800	71.0	60,800	60,800	
25	43.0	49,400	49,400	54.0	51,400	51,400	61.5	51,400	51,400	66.5	52,900	52,900	
30	30.0	39,100	39,100	46.0	41,100	41,100	55.5	42,200	42,200	61.5	42,700	42,700	
35				36.5	33,700	33,700	49.0	34,900	34,900	56.5	35,400	35,400	
40				24.0	27,100	27,100	42.0	28,300	28,300	51.0	28,800	28,800	
45							33.5	23,200	23,200	45.5	23,800	23,800	
50							21.5	19,300	19,300	38.5	19,900	19,900	
55										31.0	16,900	16,900	
60										20.0	14,400	14,400	
Min.Bm. Ang./Cap.	0.0	25,600	25,600	0.0	16,700	16,700	0.0	12,500	12,500	0.0	10,300	10,300	
Radius (ft)	34.0			43.0			53.0			63.0			

Load Radius (ft)	80.0 ft			90.0 ft			100.0 ft			113.1 ft		
	 °	360°	Over Rear	 °	360°	Over Rear	 °	360°	Over Rear	 °	360°	Over Rear
12	79.5	57,000	57,000									
15	77.5	51,900	51,900	79.5	48,700	48,700						
20	73.5	44,900	44,900	76.0	42,800	42,800	78.0	42,500	42,500			
25	70.0	39,500	39,500	73.0	38,100	38,100	75.5	38,300	38,300	78.0	32,800	32,800
30	66.0	35,100	35,100	69.5	34,100	34,100	72.5	34,800	34,800	75.5	32,100	32,100
35	62.0	31,600	31,600	66.0	30,800	30,800	69.5	31,500	31,500	73.0	29,200	29,200
40	57.5	28,700	28,700	62.5	28,100	28,100	66.0	28,900	28,900	70.5	26,700	26,700
45	53.0	24,100	24,100	58.5	24,100	24,100	62.5	23,900	23,900	67.0	23,600	23,600
50	48.0	20,300	20,300	54.0	20,200	20,200	59.0	20,000	20,000	64.0	19,800	19,800
55	42.5	17,300	17,300	49.5	17,200	17,200	55.5	17,000	17,000	61.0	16,800	16,800
60	36.5	14,800	14,800	45.0	14,700	14,800	51.5	14,500	14,600	57.5	14,300	14,400
65	29.0	12,700	12,800	40.0	12,700	12,800	47.5	12,500	12,700	54.0	12,300	12,600
70	19.0	11,000	11,200	34.5	11,000	11,200	43.0	10,800	11,100	51.0	10,700	10,900
75				27.5	9,600	9,800	38.0	9,400	9,700	47.0	9,200	9,500
80				18.0	8,300	8,600	32.5	8,200	8,500	43.5	8,000	8,300
85							26.0	7,100	7,400	39.0	7,000	7,300
90							17.0	6,200	6,500	34.5	6,100	6,400
95										29.0	5,200	5,500
100										22.0	4,500	4,800
105										11.5	3,900	4,200
Min.Bm. Ang./Cap.	0.0	8,600	8,600	0.0	7,000	7,000	0.0	5,500	5,500	0.0	3,800	4,000
Radius (ft)	73.0			83.0			93.0			106.1		

Rated Lifting Capacities In Pounds							Full				EM 3		
Load Radius (ft)	41.0 ft			50.0 ft			60.0 ft			70.0 ft			
	 °	360°	Over Rear	 °	360°	Over Rear	 °	360°	Over Rear	 °	360°	Over Rear	
10	70.0	139,100	139,100	74.0	89,000	89,000	77.0	77,000	77,000	79.0	74,400	74,400	
12	66.5	115,100	115,100	71.5	87,100	87,100	75.0	72,200	72,200	77.5	74,300	74,300	
15	62.0	90,000	90,000	68.0	80,000	80,000	72.0	66,000	66,000	75.0	68,700	68,700	
20	53.0	64,700	64,700	61.0	66,700	66,700	67.0	57,800	57,800	71.0	60,900	60,900	
25	43.0	49,400	49,400	54.0	51,400	51,400	61.5	51,400	51,400	66.5	52,900	52,900	
30	30.0	39,100	39,100	46.0	41,100	41,100	55.5	42,200	42,200	61.5	42,700	42,700	
35				36.5	33,700	33,700	49.0	34,900	34,900	56.5	35,400	35,400	
40				24.0	27,100	27,100	42.0	28,300	28,300	51.0	28,800	28,800	
45							33.5	23,200	23,200	45.5	23,800	23,800	
50							21.5	19,300	19,300	38.5	19,900	19,900	
55										31.0	16,800	16,800	
60										20.0	14,300	14,400	
Min.Bm. Ang./Cap.	0.0	25,600	25,600	0.0	16,700	16,700	0.0	12,500	12,500	0.0	10,300	10,300	
Radius (ft)	34.0			43.0			53.0			63.0			

Load Radius (ft)	80.0 ft			90.0 ft			98.7 ft		
	 °	360°	Over Rear	 °	360°	Over Rear	 °	360°	Over Rear
12	79.5	62,800	62,800						
15	77.5	62,800	62,800	79.5	61,400	61,400			
20	74.0	62,800	62,800	76.5	57,100	57,100	78.0	47,900	47,900
25	70.0	52,700	52,700	73.0	49,900	49,900	75.5	42,500	42,500
30	66.0	42,500	42,500	69.5	42,400	42,400	72.5	38,100	38,100
35	61.5	35,200	35,200	66.0	35,100	35,100	69.0	34,300	34,300
40	57.5	28,600	28,600	62.0	28,400	28,400	65.5	28,200	28,200
45	52.5	23,600	23,600	58.0	23,400	23,400	62.0	23,300	23,300
50	47.5	19,700	19,700	54.0	19,600	19,600	58.5	19,400	19,400
55	42.0	16,700	16,700	49.5	16,500	16,600	54.5	16,400	16,500
60	36.0	14,200	14,300	45.0	14,000	14,200	50.5	13,900	14,100
65	28.5	12,200	12,300	40.0	12,100	12,300	46.5	12,000	12,200
70	18.5	10,500	10,700	34.0	10,400	10,600	42.0	10,300	10,600
75				27.5	8,900	9,200	37.0	8,900	9,100
80				18.0	7,700	8,000	31.5	7,700	7,900
85							24.5	6,600	6,900
90							14.0	5,700	6,000
Min.Bm. Ang./Cap.	0.0	8,200	8,200	0.0	6,500	6,500	0.0	5,300	5,300
Radius (ft)	73.0			83.0			91.7		

**Fixed Boom Lengths
Rated Lifting Capacities
In Pounds
See Operation Note 10.**



Full

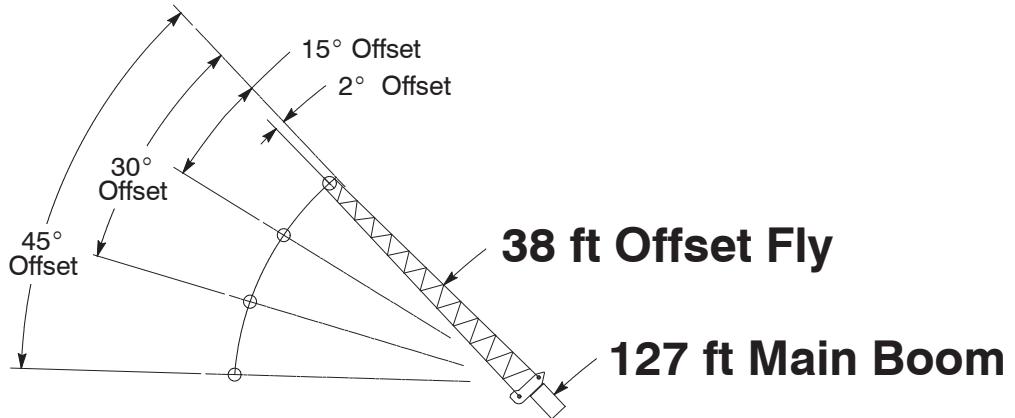


13,000 lb

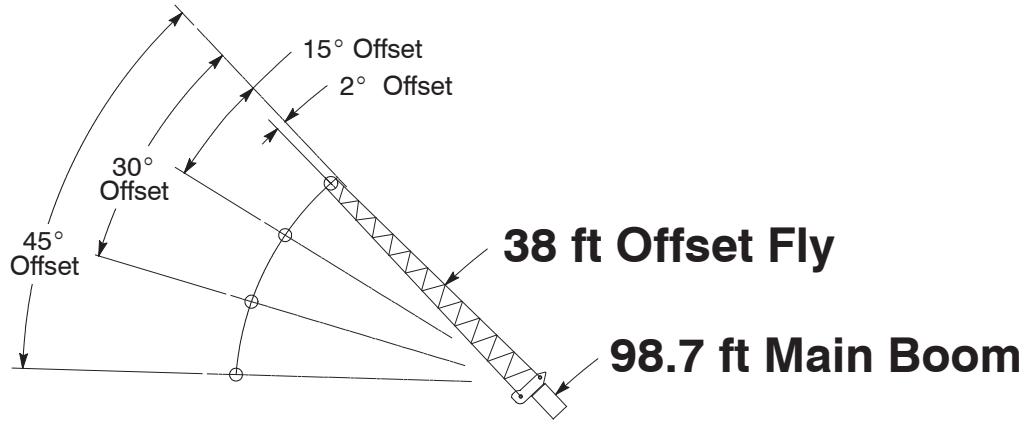


Load Radius (ft)	41.0 ft			47.0 ft		
	Δ °	360°	Over Rear	Δ °	360°	Over Rear
10	70.0	139,100	139,100	73.0	110,700	110,700
12	66.5	115,100	115,100	70.0	105,000	105,000
15	62.0	90,000	90,000	66.0	91,400	91,400
20	53.0	64,700	64,700	59.0	66,100	66,100
25	43.0	49,400	49,400	51.0	50,800	50,800
30	30.0	39,100	39,100	42.0	40,500	40,500
35				30.5	33,200	33,200
Min.Bm. Ang./Cap.	0.0	25,600	25,600	0.0	19,000	19,000
Radius (ft)		34.0			40.0	

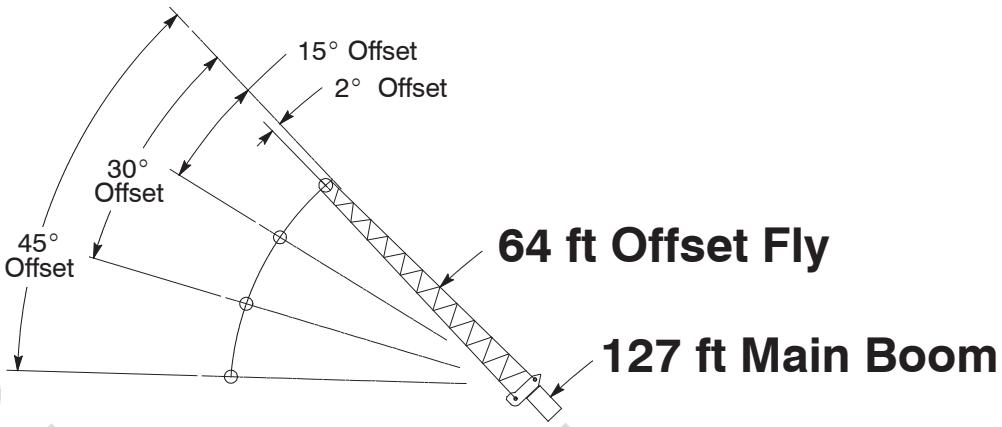
Load Radius (ft)	61.3 ft			76.0 ft		
	Δ °	360°	Over Rear	Δ °	360°	Over Rear
10	77.5	106,900	106,900			
12	75.5	106,900	106,900	79.0	81,000	81,000
15	72.5	92,500	92,500	77.0	77,400	77,400
20	67.5	67,400	67,400	73.0	67,200	67,200
25	62.0	52,100	52,100	68.5	52,000	52,000
30	56.0	41,800	41,800	64.0	41,800	41,800
35	50.0	34,500	34,500	59.5	34,500	34,500
40	43.0	28,000	28,000	55.0	27,800	27,800
45	35.0	22,900	22,900	50.0	22,800	22,800
50	25.0	19,000	19,000	44.5	19,000	19,000
55				38.5	16,000	16,000
60				31.0	13,500	13,600
65				21.5	11,400	11,600
Min.Bm. Ang./Cap.	0.0	13,800	13,800	0.0	9,600	9,600
Radius (ft)		54.3			69.0	



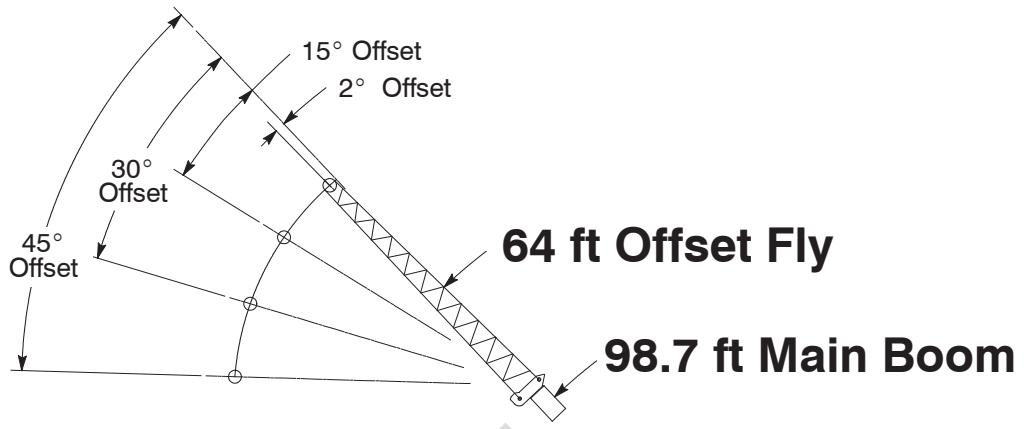
Rated Lifting Capacities In Pounds			Full		A B C		13,000 lb	
Load Radius (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	°	360°	°	360°	°	360°	°	360°
35	79.5	10,900						
40	78.0	10,900						
45	76.5	10,900	79.5	10,400				
50	75.0	10,900	78.0	10,300				
55	73.5	10,900	76.5	10,100	79.5	9,100		
60	72.0	10,900	75.0	9,900	77.5	8,900		
65	70.5	10,700	73.0	9,700	76.0	8,700	78.0	8,100
70	69.0	10,500	71.5	9,500	74.0	8,600	76.5	8,000
75	67.0	10,200	69.5	9,300	72.5	8,500	74.5	7,900
80	64.5	9,200	68.0	9,000	70.5	8,300	72.5	7,700
85	62.0	8,100	65.5	8,500	68.5	8,000	70.5	7,700
90	60.0	7,200	63.0	7,600	66.5	7,700	68.5	7,400
95	57.5	6,300	60.5	6,800	63.5	7,200	66.0	7,200
100	55.0	5,600	58.5	6,000	61.0	6,400	63.5	6,600
105	52.5	4,900	55.5	5,300	58.5	5,600	60.5	5,900
110	50.0	4,400	52.5	4,700	55.5	5,000	58.0	5,200
115	47.0	3,800	50.0	4,100	52.5	4,400	54.5	4,600
120	44.5	3,400	47.0	3,600	50.0	3,900	51.0	4,000
125	41.0	2,900	44.5	3,200	46.5	3,400	47.5	3,500
130	38.0	2,500	41.0	2,700	43.5	2,900		
135	34.0	2,200	37.5	2,300	39.5	2,500		
140	30.5	1,800	33.0	2,000	35.0	2,100		
145	25.5	1,500	29.0	1,700	30.0	1,700		
150	20.5	1,300	23.0	1,300				
155	12.5	1,000	15.0	1,000				
Min.Bm. Ang./Cap.	0.0	500	0.0	500	0.0	600	0.0	700
Radius (ft)	158.0		157.5		155.0		150.6	



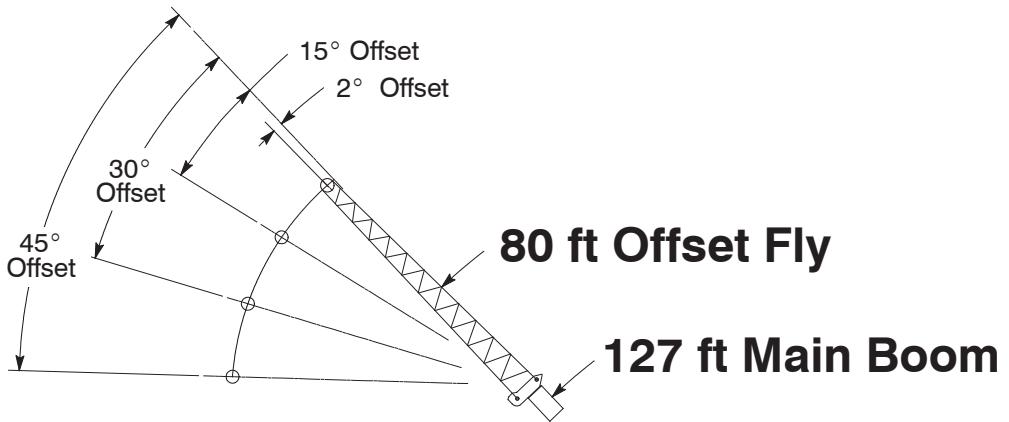
Rated Lifting Capacities In Pounds								
Load Radius (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	2° °	360°	15° °	360°	30° °	360°	45° °	360°
30	78.0	16,200						
35	76.0	15,600						
40	74.0	14,900	77.0	12,500				
45	72.0	14,300	75.0	12,000	78.5	10,100		
50	69.5	13,600	73.0	11,500	76.5	9,800		
55	67.5	13,000	70.5	11,100	74.0	9,500	77.0	8,600
60	65.0	12,500	68.5	10,700	72.0	9,300	74.5	8,400
65	63.0	11,900	66.0	10,300	69.5	9,000	72.0	8,300
70	60.5	11,400	63.5	10,000	67.0	8,800	69.5	8,100
75	57.5	10,200	61.0	9,700	64.5	8,600	67.0	8,000
80	54.5	8,900	58.5	9,400	62.0	8,500	64.0	7,900
85	51.5	7,900	55.5	8,400	59.0	8,300	61.0	7,800
90	49.0	6,900	52.5	7,400	56.0	7,800	58.0	7,700
95	45.5	6,100	49.0	6,500	52.5	6,900	54.5	7,100
100	42.0	5,400	45.5	5,700	48.5	6,000	50.5	6,200
105	38.5	4,700	42.0	5,000	44.5	5,300	46.0	5,400
110	34.0	4,200	38.0	4,400	40.5	4,600		
115	30.0	3,600	33.0	3,800	35.5	4,000		
120	24.0	3,200	28.0	3,300				
125	17.5	2,700	20.5	2,800				
Min.Bm. Ang./Cap.	0.0	1,900	0.0	1,900	0.0	2,100	0.0	2,300
Radius (ft)	129.7		129.3		127.0		122.9	



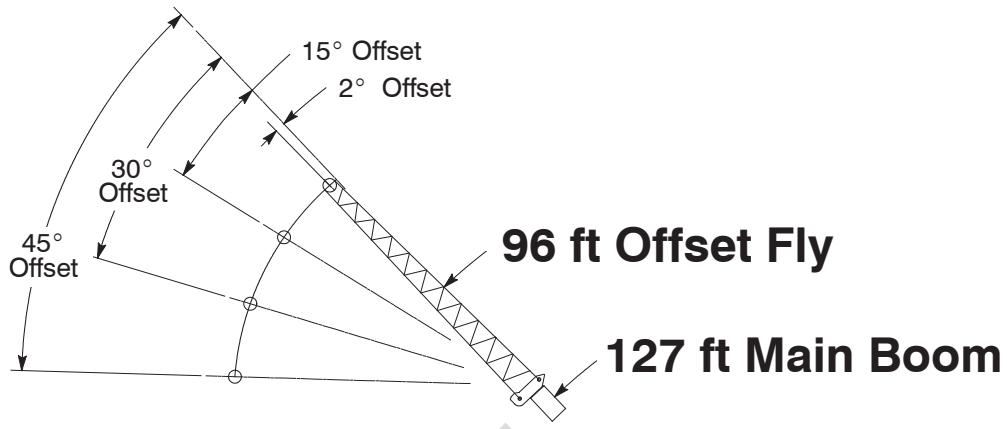
Rated Lifting Capacities In Pounds														
Load Radius (ft)	2° Offset		15° Offset		30° Offset		45° Offset							
	°	360°	°	360°	°	360°	°	360°	°	360°	°	360°	°	360°
45	79.5	7,300												
50	78.5	7,300												
55	77.0	7,200												
60	76.0	7,100												
65	74.5	6,900	79.0	6,100										
70	73.0	6,800	77.5	6,000										
75	72.0	6,600	76.0	5,800										
80	70.5	6,500	74.5	5,600	79.0	4,900								
85	69.0	6,300	73.0	5,500	77.5	4,800								
90	67.5	6,100	71.5	5,300	76.0	4,700	79.5	4,200						
95	66.0	5,900	70.0	5,200	74.0	4,600	78.0	4,200						
100	64.5	5,700	68.5	5,100	72.5	4,500	76.0	4,100						
105	62.5	5,400	66.5	4,900	71.0	4,400	74.5	4,100						
110	60.5	5,000	65.0	4,700	69.0	4,300	72.5	4,100						
115	58.5	4,400	63.0	4,500	67.0	4,200	70.5	4,000						
120	56.0	3,900	61.0	4,300	65.0	4,000	68.5	3,900						
125	54.0	3,500	59.0	4,000	63.0	3,900	66.5	3,800						
130	52.0	3,100	56.5	3,500	61.0	3,700	64.0	3,600						
135	49.5	2,700	54.5	3,100	58.5	3,500	61.5	3,500						
140	47.0	2,400	52.0	2,700	56.0	3,100	58.5	3,300						
145	45.0	2,000	49.5	2,400	53.0	2,700	55.5	2,800						
150	42.5	1,700	46.5	2,000	50.5	2,300	52.5	2,400						
155	40.0	1,500	44.0	1,700	47.5	2,000	49.0	2,000						
160	37.5	1,200	41.5	1,500	44.5	1,600	45.0	1,700						
165	34.5	1,000	38.5	1,200	41.0	1,300								
170	31.0	800	34.5	900	36.5	1,000								
175			30.5	700										
Min.Bm. Ang./Cap.	27.0		27.0		31.0		30.0							
Radius (ft)	175.0		178.1		175.0		166.4							
Maximum Boom Length At 0° Boom Angle (ft)		109ft												



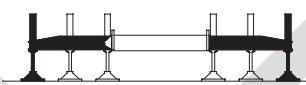
Rated Lifting Capacities In Pounds						13,000 lb			
Load Radius (ft)	2° Offset		15° Offset		30° Offset		45° Offset		
	°	360°	°	360°	°	360°	°	360°	
35	79.5	10,300							
40	77.5	9,900							
45	76.0	9,400							
50	74.5	9,000	79.5	7,400					
55	72.5	8,500	77.5	7,000					
60	71.0	8,100	76.0	6,700					
65	69.0	7,700	74.0	6,400	79.5	5,400			
70	67.0	7,300	72.0	6,200	77.5	5,200			
75	65.5	7,000	70.0	5,900	75.5	5,100			
80	63.5	6,700	68.5	5,700	73.5	4,900	78.0	4,400	
85	61.5	6,400	66.5	5,500	71.5	4,800	76.0	4,300	
90	59.5	6,100	64.0	5,300	69.5	4,700	73.5	4,300	
95	57.5	5,800	62.0	5,100	67.0	4,600	71.5	4,200	
100	55.0	5,600	60.0	5,000	65.0	4,500	69.0	4,200	
105	53.0	5,400	57.5	4,800	62.5	4,400	66.5	4,100	
110	50.0	5,000	55.5	4,700	60.0	4,300	63.5	4,100	
115	47.5	4,400	53.0	4,600	57.5	4,200	61.0	4,100	
120	45.0	4,000	50.0	4,400	54.5	4,200	57.5	4,100	
125	42.0	3,500	47.0	3,900	51.5	4,100	54.5	4,100	
130	39.0	3,100	44.0	3,500	48.0	3,800	50.5	3,900	
135	35.5	2,700	40.5	3,000	44.5	3,300	45.5	3,400	
140	32.0	2,400	36.5	2,600	40.0	2,800			
145	28.0	2,100	32.5	2,300	34.5	2,400			
150	22.5	1,800	26.5	1,900					
155	13.5	1,600							
Min.Bm. Ang./Cap.	0.0	1,100	0.0	1,100	0.0	1,200	0.0	1,400	
Radius (ft)	155.7		154.9		151.5		145.5		



Rated Lifting Capacities In Pounds										
Load Radius (ft)	2° Offset		15° Offset		30° Offset		45° Offset			
	°	360°	°	360°	°	360°	°	360°		
50	79.0	5,800								
55	78.0	5,800								
60	77.0	5,800								
65	75.5	5,800	79.5	5,600						
70	74.5	5,800	78.5	5,300						
75	73.5	5,800	77.0	5,000						
80	72.0	5,500	75.5	4,700	79.0	3,900				
85	70.5	5,200	74.0	4,400	77.5	3,700				
90	69.0	4,900	72.5	4,200	76.0	3,500	78.5	3,100		
95	67.5	4,600	71.0	4,000	74.5	3,400	77.0	2,900		
100	66.0	4,400	69.5	3,800	73.0	3,200	75.5	2,800		
105	64.5	4,200	68.0	3,600	71.0	3,100	73.5	2,700		
110	63.0	4,000	66.5	3,500	69.5	2,900	72.0	2,600		
115	61.5	3,800	65.0	3,300	68.0	2,800	70.5	2,500		
120	59.0	3,500	63.0	3,200	66.0	2,700	68.5	2,500		
125	57.5	3,100	61.5	3,000	64.5	2,600	66.5	2,400		
130	56.0	2,700	59.5	2,900	62.5	2,500	64.5	2,300		
135	53.5	2,300	57.5	2,800	61.0	2,500	62.5	2,300		
140	51.0	1,900	55.5	2,400	59.0	2,400	60.5	2,200		
145	49.5	1,600	53.0	2,000	57.0	2,300	58.5	2,200		
150	47.0	1,300	51.0	1,700	54.0	2,000	56.0	2,100		
155	44.5	1,000	48.5	1,400	51.5	1,700	53.0	1,800		
160			46.0	1,100	49.0	1,300	50.5	1,500		
165					46.0	1,000	47.0	1,100		
Min.Bm. Ang./Cap.	43.0		44.0		44.0		44.0			
Radius (ft)	158.8		164.2		168.8		169.2			
Maximum Boom Length At 0° Boom Angle (ft)	98ft									



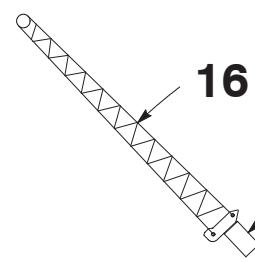
**Rated Lifting Capacities
In Pounds**



13,000 lb



Load Radius (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	°	360°	°	360°	°	360°	°	360°
55	79.0	4,500						
60	78.0	4,500						
65	77.0	4,500						
70	76.0	4,500	79.5	4,200				
75	75.0	4,400	78.5	3,900				
80	74.0	4,100	77.0	3,700				
85	72.5	3,900	75.5	3,400	79.0	3,000		
90	71.0	3,600	74.5	3,200	77.5	2,800		
95	70.0	3,400	73.0	3,000	76.0	2,600	79.0	2,300
100	68.5	3,200	71.5	2,800	75.0	2,400	77.5	2,200
105	67.0	3,000	70.5	2,600	73.5	2,300	76.0	2,100
110	65.5	2,800	69.0	2,500	72.0	2,200	74.0	1,900
115	64.0	2,600	67.5	2,300	70.5	2,000	72.5	1,800
120	62.5	2,500	66.0	2,200	69.0	1,900	71.0	1,700
125	61.0	2,300	64.5	2,100	67.5	1,800	69.5	1,600
130	59.5	2,200	63.0	1,900	65.5	1,700	67.5	1,500
135	58.0	2,100	61.5	1,800	64.0	1,600	66.0	1,400
140	56.5	1,900	59.5	1,700	62.5	1,500	64.0	1,400
145	54.0	1,600	58.0	1,600	60.5	1,400	62.5	1,300
150	52.0	1,300	56.5	1,500	59.0	1,300	60.5	1,200
155	50.5	1,000	54.0	1,400	57.0	1,300	58.5	1,200
160			52.0	1,100	55.0	1,200	56.5	1,100
165					52.5	1,100	54.0	1,100
170							51.5	900
Min.Bm. Ang./Cap.	49.5		50.5		51.0		51.0	
Radius (ft)	157.5		164.2		169.2		170.8	
Maximum Boom Length At 0° Boom Angle (ft)		87ft						



16 ft Fly Extension

127 ft Main Boom

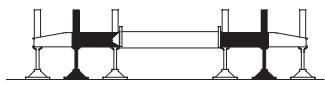
Rated Lifting Capacities In Pounds		Full	A B A C	13,000 lb	EM 1
Load Radius (ft)		24°		360°	
30		78.5		15,600	
35		77.0		15,600	
40		75.0		15,600	
45		73.5		15,600	
50		71.5		15,600	
55		70.0		15,600	
60		67.5		15,000	
65		65.0		12,900	
70		62.5		11,400	
75		59.5		9,900	
80		57.0		8,700	
85		54.0		7,600	
90		51.5		6,700	
95		48.5		5,900	
100		45.5		5,200	
105		42.0		4,500	
110		38.5		4,000	
115		35.0		3,500	
120		30.5		3,000	
125		26.0		2,600	
130		20.0		2,200	
135		10.0		1,800	
Min.Bm. Ang./Cap.		0.0		1,400	
Radius (ft)		136.1			

Rated Lifting Capacities In Pounds								
Load Radius (ft)	41.0 ft		50.0 ft		60.0 ft		70.0 ft	
	0°	360°	0°	360°	0°	360°	0°	360°
10	70.0	123,700	74.0	89,000	77.0	62,900	79.0	49,800
12	66.5	88,300	71.5	87,100	75.0	58,500	77.5	46,500
15	61.5	50,100	67.5	53,100	72.0	53,000	75.0	42,200
20	53.0	26,500	61.0	28,900	66.5	30,600	70.5	31,700
25	43.0	15,900	53.5	18,300	61.0	19,800	66.0	20,800
30	29.5	10,000	46.0	12,200	55.0	13,800	61.0	14,700
35			36.5	8,300	48.5	9,900	56.0	10,900
40			23.5	5,600	41.5	7,100	50.5	8,100
45					33.0	5,000	45.0	6,000
50					21.5	3,400	38.0	4,400
55							30.5	3,100
60							19.5	2,100
Min.Bm. Ang./Cap.	0.0	6,600	0.0	4,200	0.0	2,600	0.0	1,600
Radius (ft)	34.0		43.0		53.0		63.0	

Load Radius (ft)	80.0 ft		90.0 ft		100.0 ft		110.0 ft	
	0°	360°	0°	360°	0°	360°	0°	360°
12	79.5	42,400						
15	77.5	42,400	79.0	36,700				
20	73.5	32,000	76.0	32,300	77.5	30,700	79.0	29,100
25	69.5	21,100	72.0	21,300	74.5	21,400	76.5	21,100
30	65.0	15,000	68.5	15,200	71.0	15,200	73.0	14,900
35	61.0	11,100	65.0	11,300	68.0	11,400	70.5	11,100
40	56.5	8,400	61.0	8,600	64.5	8,600	67.5	8,400
45	52.0	6,300	57.0	6,600	61.0	6,600	64.5	6,400
50	47.0	4,700	53.0	5,000	57.5	5,100	61.0	4,800
55	41.5	3,500	49.0	3,700	54.0	3,800	58.0	3,600
60	35.5	2,500	44.0	2,700	50.0	2,800	54.5	2,600
65	28.5	1,600	39.0	1,900	46.0	2,000	51.5	1,800
70			33.5	1,100	42.0	1,200	47.5	1,100
Min.Bm. Ang./Cap.	18.5		31.0		39.5		39.5	
Radius (ft)	70.0		71.7		72.5		72.5	



**Rated Lifting Capacities
In Pounds**

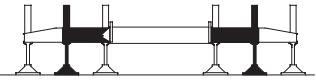
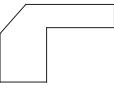


Intermediate

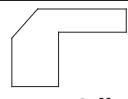
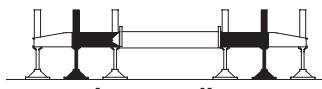
0 lb

Load Radius (ft)	41.0 ft		50.0 ft		60.0 ft	
	24°	360°	24°	360°	24°	360°
10	70.0	123,700	74.0	89,000	77.0	77,000
12	66.5	88,300	71.5	87,100	75.0	72,200
15	61.5	50,100	67.5	53,100	72.0	54,700
20	53.0	26,500	61.0	28,900	66.5	30,200
25	43.0	15,900	53.5	18,300	61.0	19,500
30	29.5	10,000	46.0	12,200	55.0	13,500
35			36.5	8,300	48.5	9,600
40			23.5	5,600	41.5	6,800
45					33.0	4,700
50					21.5	3,200
Min.Bm. Ang./Cap.	0.0	6,600	0.0	4,200	0.0	2,400
Radius (ft)	34.0		43.0		53.0	

Load Radius (ft)	70.0 ft		80.0 ft		90.0 ft		100.0 ft	
	24°	360°	24°	360°	24°	360°	24°	360°
10	79.5	74,000						
12	77.5	74,000	79.5	57,000				
15	75.0	55,500	77.5	51,900	79.5	48,700		
20	70.5	30,800	73.5	31,200	75.5	31,100	77.5	30,800
25	65.5	20,000	69.0	20,400	72.0	20,400	74.0	20,100
30	61.0	14,000	65.0	14,300	68.5	14,300	71.0	14,000
35	56.0	10,200	61.0	10,500	64.5	10,500	67.5	10,300
40	50.5	7,400	56.5	7,800	61.0	7,800	64.5	7,600
45	44.5	5,300	52.0	5,800	57.0	5,800	61.0	5,600
50	38.0	3,800	47.0	4,200	53.0	4,200	57.5	4,100
55	30.5	2,500	41.5	2,900	48.5	3,000	54.0	2,900
60	19.5	1,500	35.5	1,900	44.0	2,000	50.0	1,800
65			28.5	1,100	39.0	1,100	46.0	1,000
Min.Bm. Ang./Cap.	0.0	1,000	25.5		37.5		45.0	
Radius (ft)	63.0		66.4		66.4		66.0	

Rated Lifting Capacities In Pounds						
Load Radius (ft)	41.0 ft		50.0 ft		60.0 ft	
	 °	360°	 °	360°	 °	360°
10	70.0	123,700	74.0	89,000	77.0	77,000
12	66.5	88,300	71.5	87,100	75.0	72,200
15	61.5	50,100	67.5	53,100	72.0	54,700
20	53.0	26,500	61.0	28,900	66.5	30,200
25	43.0	15,900	53.5	18,300	61.0	19,500
30	29.5	10,000	46.0	12,200	55.0	13,500
35			36.5	8,300	48.5	9,600
40			23.5	5,600	41.5	6,800
45					33.0	4,700
50					21.5	3,200
Min.Bm. Ang./Cap.	0.0	6,600	0.0	4,200	0.0	2,400
Radius (ft)	34.0		43.0		53.0	
Load Radius (ft)	70.0 ft		80.0 ft		90.0 ft	
	 °	360°	 °	360°	 °	360°
10	79.5	74,400				
12	77.5	74,300	79.5	62,800		
15	75.0	55,400	77.0	55,000	79.5	54,700
20	70.0	30,700	73.0	30,400	75.5	30,200
25	65.5	20,000	69.0	19,700	72.0	19,500
30	61.0	13,900	65.0	13,700	68.5	13,500
35	56.0	10,100	61.0	9,900	64.5	9,800
40	50.5	7,400	56.5	7,200	61.0	7,100
45	44.5	5,300	52.0	5,200	57.0	5,100
50	38.0	3,700	47.0	3,600	53.0	3,600
55	30.5	2,500	41.5	2,400	48.5	2,300
60	19.5	1,500	35.5	1,400	44.0	1,300
Min.Bm. Ang./Cap.	0.0	900	32.0		42.0	48.0
Radius (ft)	63.0		62.3		61.8	

**Fixed Boom Lengths
Rated Lifting Capacities
In Pounds
See Operation Note 10.**



0 lb

Load Radius (ft)	41.0 ft		47.0 ft	
	45°	360°	45°	360°
10	70.0	123,700	73.0	110,700
12	66.5	88,300	70.0	91,100
15	61.5	50,100	66.0	52,200
20	53.0	26,500	58.5	28,200
25	43.0	15,900	50.5	17,600
30	29.5	10,000	41.5	11,600
35			30.5	7,700
Min.Bm. Ang./Cap.	0.0	6,600	0.0	4,900
Radius (ft)	34.0		40.0	

Load Radius (ft)	61.3 ft		76.0 ft	
	45°	360°	45°	360°
10	77.5	106,900		
12	75.5	93,600	79.0	81,000
15	72.0	54,100	76.5	53,800
20	67.0	29,700	72.0	29,500
25	61.5	19,100	68.0	18,900
30	56.0	13,100	63.5	12,900
35	49.5	9,200	59.0	9,200
40	43.0	6,400	54.5	6,500
45	35.0	4,400	49.5	4,500
50	24.5	2,800	44.0	2,900
55			38.0	1,700
Min.Bm. Ang./Cap.	0.0	1,700	33.5	
Radius (ft)	54.3		58.0	

Rated Lifting Capacities In Pounds										
Load Radius (ft)	41.0 ft		50.0 ft		60.0 ft		70.0 ft		80.0 ft	
	24°	360°	24°	360°	24°	360°	24°	360°	24°	360°
10	70.0	126,500	74.0	89,000	77.0	62,900	79.0	49,800		
12	66.5	100,200	71.5	87,100	75.0	58,500	77.5	46,500	79.5	42,400
15	61.5	57,400	67.5	60,400	72.0	53,000	75.0	42,200	77.5	42,400
20	53.0	31,000	61.0	33,300	66.5	35,000	70.5	36,100	73.5	36,500
25	43.0	19,100	54.0	21,500	61.0	23,000	66.0	24,000	69.5	24,300
30	29.5	12,400	46.0	14,700	55.0	16,300	61.0	17,200	65.5	17,500
35				36.5	10,300	48.5	11,900	56.0	12,800	61.0
40				23.5	7,300	41.5	8,800	50.5	9,800	56.5
45						33.0	6,500	45.0	7,500	52.0
50							21.5	4,800	38.5	5,700
55								30.5	4,300	41.5
60								19.5	3,200	35.5
65										28.5
70										18.5
Min.Bm. Ang./Cap.	0.0	8,800	0.0	5,800	0.0	3,900	0.0	2,600	0.0	1,400
Radius (ft)	34.0		43.0		53.0		63.0		73.0	

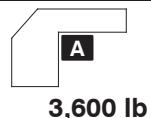
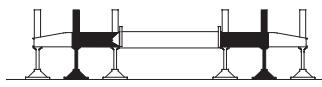
Load Radius (ft)	90.0 ft		100.0 ft		110.0 ft		120.0 ft	
	24°	360°	24°	360°	24°	360°	24°	360°
15	79.0	36,700						
20	76.0	36,700	77.5	30,700	79.0	29,100		
25	72.5	24,500	74.5	24,600	76.5	24,200	78.0	24,000
30	68.5	17,700	71.5	17,700	73.5	17,400	75.5	17,100
35	65.0	13,300	68.0	13,300	70.5	13,000	72.5	12,800
40	61.0	10,300	64.5	10,300	67.5	10,100	70.0	9,900
45	57.5	8,100	61.5	8,100	64.5	7,900	67.0	7,600
50	53.5	6,300	58.0	6,400	61.5	6,100	64.5	5,900
55	49.0	4,900	54.0	5,000	58.0	4,800	61.5	4,600
60	44.5	3,800	50.5	3,900	55.0	3,700	58.5	3,500
65	39.5	2,800	46.5	2,900	51.5	2,700	55.5	2,600
70	33.5	2,100	42.0	2,100	48.0	2,000	52.5	1,800
75	26.5	1,400	37.0	1,500	44.0	1,300	49.0	1,100
Min.Bm. Ang./Cap.	19.0		32.0		41.5		51.5	
Radius (ft)	79.2		80.0		78.3		76.0	

Rated Lifting Capacities In Pounds							
Load Radius (ft)	Intermediate				A		
	41.0 ft	50.0 ft	60.0 ft	70.0 ft			
	41°	360°	41°	360°	41°	360°	41°
10	70.0	126,500	74.0	89,000	77.0	77,000	79.5
12	66.5	100,200	71.5	87,100	75.0	72,200	77.5
15	61.5	57,400	67.5	60,400	72.0	62,100	75.0
20	53.0	31,000	61.0	33,300	66.5	34,600	70.5
25	43.0	19,100	54.0	21,500	61.0	22,700	65.5
30	29.5	12,400	46.0	14,700	55.0	16,000	61.0
35			36.5	10,300	48.5	11,600	56.0
40			23.5	7,300	41.5	8,500	50.5
45					33.0	6,200	44.5
50					21.5	4,500	38.0
55							30.5
60							19.5
Min.Bm. Ang./Cap.	0.0	8,800	0.0	5,800	0.0	3,600	0.0
Radius (ft)	34.0		43.0		53.0		63.0

Load Radius (ft)	80.0 ft		90.0 ft		100.0 ft		113.1 ft	
	41°	360°	41°	360°	41°	360°	41°	360°
12	79.5	57,000						
15	77.5	51,900	79.5	48,700				
20	73.5	35,700	76.0	35,600	78.0	35,300		
25	69.5	23,600	72.0	23,500	74.5	23,300	77.0	23,000
30	65.0	16,800	68.5	16,700	71.0	16,500	74.0	16,300
35	61.0	12,600	65.0	12,500	68.0	12,300	71.0	12,100
40	56.5	9,500	61.0	9,500	64.5	9,300	68.0	9,100
45	52.0	7,300	57.0	7,300	61.0	7,100	65.5	6,900
50	47.0	5,500	53.0	5,500	57.5	5,400	62.5	5,200
55	41.5	4,100	49.0	4,200	54.0	4,000	59.0	3,900
60	35.5	3,000	44.0	3,000	50.5	2,900	56.0	2,800
65	28.5	2,100	39.0	2,100	46.0	2,000	53.0	1,900
70	18.5	1,300	33.5	1,300	42.0	1,200	49.5	1,100
Min.Bm. Ang./Cap.	0.0	900	29.0		40.0		48.5	
Radius (ft)	73.0		73.3		72.1		71.4	

Rated Lifting Capacities In Pounds				A				
Load Radius (ft)	41.0 ft		50.0 ft		60.0 ft		70.0 ft	
	24°	360°	24°	360°	24°	360°	24°	360°
10	70.0	126,500	74.0	89,000	77.0	77,000	79.5	74,400
12	66.5	100,200	71.5	87,100	75.0	72,200	77.5	74,300
15	61.5	57,400	67.5	60,400	72.0	62,100	75.0	62,800
20	53.0	31,000	61.0	33,300	66.5	34,600	70.5	35,200
25	43.0	19,100	54.0	21,500	61.0	22,700	65.5	23,200
30	29.5	12,400	46.0	14,700	55.0	16,000	61.0	16,400
35			36.5	10,300	48.5	11,600	56.0	12,200
40			23.5	7,300	41.5	8,500	50.5	9,100
45					33.0	6,200	44.5	6,800
50					21.5	4,500	38.0	5,000
55							30.5	3,700
60							19.5	2,500
Min.Bm. Ang./Cap.	0.0	8,800	0.0	5,800	0.0	3,600	0.0	1,900
Radius (ft)	34.0		43.0		53.0		63.0	
Load Radius (ft)	80.0 ft		90.0 ft		98.7 ft			
	24°	360°	24°	360°	24°	360°	24°	
12	79.5	62,800						
15	77.5	62,400	79.5	61,400				
20	73.0	34,900	75.5	34,700	77.5	34,500		
25	69.0	22,900	72.0	22,700	74.0	22,600		
30	65.0	16,200	68.5	16,000	71.0	15,900		
35	61.0	12,000	64.5	11,800	67.5	11,700		
40	56.5	9,000	61.0	8,800	64.0	8,700		
45	52.0	6,700	57.0	6,600	60.5	6,500		
50	47.0	5,000	53.0	4,900	57.0	4,800		
55	41.5	3,600	49.0	3,500	53.5	3,500		
60	35.5	2,500	44.0	2,400	49.5	2,400		
65	28.5	1,500	39.0	1,500	45.5	1,400		
Min.Bm. Ang./Cap.	19.5		35.0		42.5			
Radius (ft)	69.3		68.8		68.6			

**Fixed Boom Lengths
Rated Lifting Capacities
In Pounds
See Operation Note 10.**



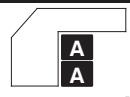
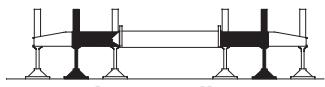
Load Radius (ft)	41.0 ft		47.0 ft	
	24°	360°	24°	360°
10	70.0	126,500	73.0	110,700
12	66.5	100,200	70.0	103,000
15	61.5	57,400	66.0	59,500
20	53.0	31,000	58.5	32,600
25	43.0	19,100	50.5	20,800
30	29.5	12,400	41.5	14,000
35			30.5	9,700
Min.Bm. Ang./Cap.	0.0	8,800	0.0	6,600
Radius (ft)	34.0		40.0	

Load Radius (ft)	61.3 ft		76.0 ft	
	24°	360°	24°	360°
10	77.5	106,900		
12	75.5	105,600	79.0	81,000
15	72.5	61,400	76.5	61,100
20	67.0	34,100	72.0	33,900
25	61.5	22,300	68.0	22,100
30	56.0	15,600	63.5	15,400
35	49.5	11,300	59.0	11,200
40	43.0	8,200	54.5	8,200
45	35.0	5,900	49.5	6,000
50	24.5	4,200	44.0	4,200
55			38.0	2,900
60			30.5	1,800
Min.Bm. Ang./Cap.	0.0	2,900	22.5	
Radius (ft)	54.3		64.6	

Rated Lifting Capacities In Pounds										
Load Radius (ft)	41.0 ft		50.0 ft		60.0 ft		70.0 ft		80.0 ft	
	24°	360°	24°	360°	24°	360°	24°	360°	24°	360°
10	70.0	129,200	74.0	89,000	77.0	62,900	79.0	49,800		
12	66.5	109,600	71.5	87,100	75.0	58,500	77.5	46,500	79.5	42,400
15	62.0	64,700	67.5	67,700	72.0	53,000	75.0	42,200	77.5	42,400
20	53.0	35,400	61.0	37,800	66.5	39,400	70.5	36,400	73.5	37,900
25	43.0	22,300	54.0	24,700	61.0	26,200	66.0	27,100	69.5	27,400
30	29.5	14,900	46.0	17,200	55.0	18,800	61.0	19,700	65.5	19,900
35			36.5	12,400	48.5	13,900	56.0	14,900	61.0	15,100
40			23.5	9,000	41.5	10,500	51.0	11,500	57.0	11,800
45					33.0	8,000	45.0	9,000	52.0	9,300
50					21.5	6,100	38.5	7,000	47.5	7,400
55							30.5	5,500	42.0	5,800
60							19.5	4,300	35.5	4,600
65									28.5	3,600
70									18.5	2,700
Min.Bm. Ang./Cap.	0.0	10,900	0.0	7,400	0.0	5,100	0.0	3,600	0.0	2,300
Radius (ft)	34.0		43.0		53.0		63.0		73.0	

Load Radius (ft)	90.0 ft		100.0 ft		110.0 ft		120.0 ft		127.0 ft	
	24°	360°	24°	360°	24°	360°	24°	360°	24°	360°
15	79.0	36,700								
20	76.0	36,700	77.5	30,700	79.0	29,100				
25	72.5	27,600	75.0	27,600	77.0	27,300	78.5	25,500	79.0	22,600
30	69.0	20,100	71.5	20,200	73.5	19,900	75.5	19,600	77.0	19,500
35	65.0	15,300	68.0	15,300	70.5	15,000	73.0	14,800	74.0	14,700
40	61.5	12,000	65.0	12,100	67.5	11,800	70.0	11,600	71.5	11,500
45	57.5	9,600	61.5	9,600	64.5	9,300	67.5	9,100	69.0	9,000
50	53.5	7,600	58.0	7,700	61.5	7,500	64.5	7,300	66.5	7,100
55	49.0	6,100	54.5	6,200	58.5	6,000	61.5	5,800	63.5	5,600
60	44.5	4,900	50.5	4,900	55.0	4,800	58.5	4,600	61.0	4,400
65	39.5	3,800	46.5	3,900	51.5	3,700	55.5	3,600	58.0	3,400
70	33.5	3,000	42.0	3,000	48.0	2,900	52.5	2,700	55.5	2,600
75	27.0	2,200	37.5	2,300	44.0	2,100	49.5	2,000	52.5	1,900
80	17.5	1,600	32.0	1,700	40.0	1,500	46.0	1,300	49.0	1,200
85			25.5	1,100						
Min.Bm. Ang./Cap.	0.0	1,300	22.0		35.5		43.0		47.0	
Radius (ft)	83.0		87.0		85.0		84.0		83.0	

**Rated Lifting Capacities
In Pounds**



Intermediate

7,200 lb

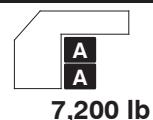
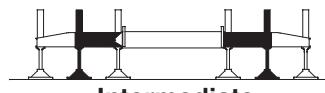
Load Radius (ft)	41.0 ft		50.0 ft		60.0 ft		70.0 ft	
	24°	360°	24°	360°	24°	360°	24°	360°
10	70.0	129,200	74.0	89,000	77.0	77,000	79.5	74,000
12	66.5	109,600	71.5	87,100	75.0	72,200	77.5	74,000
15	62.0	64,700	67.5	67,700	72.0	66,000	75.0	68,500
20	53.0	35,400	61.0	37,800	66.5	39,000	70.5	39,600
25	43.0	22,300	54.0	24,700	61.0	25,800	66.0	26,300
30	29.5	14,900	46.0	17,200	55.0	18,500	61.0	18,900
35			36.5	12,400	48.5	13,600	56.0	14,200
40			23.5	9,000	41.5	10,200	50.5	10,900
45					33.0	7,700	44.5	8,300
50					21.5	5,800	38.0	6,400
55							30.5	4,900
60							19.5	3,700
Min.Bm. Ang./Cap.	0.0	10,900	0.0	7,400	0.0	4,800	0.0	3,000
Radius (ft)	34.0		43.0		53.0		63.0	

Load Radius (ft)	80.0 ft		90.0 ft		100.0 ft		113.1 ft	
	24°	360°	24°	360°	24°	360°	24°	360°
12	79.5	57,000						
15	77.5	51,900	79.5	48,700				
20	73.5	40,000	76.0	39,900	78.0	39,600		
25	69.5	26,700	72.0	26,600	74.5	26,400	77.5	26,100
30	65.5	19,300	68.5	19,200	71.5	19,000	74.0	18,800
35	61.0	14,500	65.0	14,400	68.0	14,200	71.5	14,000
40	56.5	11,300	61.0	11,200	64.5	11,000	68.5	10,800
45	52.0	8,800	57.5	8,800	61.5	8,600	65.5	8,400
50	47.0	6,800	53.0	6,900	58.0	6,700	62.5	6,500
55	41.5	5,300	49.0	5,300	54.0	5,200	59.5	5,000
60	35.5	4,100	44.5	4,100	50.5	4,000	56.0	3,900
65	28.5	3,000	39.5	3,100	46.5	3,000	53.0	2,800
70	18.5	2,200	33.5	2,200	42.0	2,100	49.5	2,000
75			26.5	1,500	37.0	1,400	46.0	1,300
Min.Bm. Ang./Cap.	0.0	1,700	17.5		33.5		43.5	
Radius (ft)	73.0		80.0		78.6		77.9	

Rated Lifting Capacities In Pounds								
Load Radius (ft)	41.0 ft		50.0 ft		60.0 ft		70.0 ft	
	24°	360°	24°	360°	24°	360°	24°	360°
10	70.0	129,200	74.0	89,000	77.0	77,000	79.5	74,400
12	66.5	109,600	71.5	87,100	75.0	72,200	77.5	74,300
15	62.0	64,700	67.5	67,700	72.0	66,000	75.0	68,700
20	53.0	35,400	61.0	37,800	66.5	39,000	70.5	39,500
25	43.0	22,300	54.0	24,700	61.0	25,800	65.5	26,300
30	29.5	14,900	46.0	17,200	55.0	18,500	61.0	18,900
35			36.5	12,400	48.5	13,600	56.0	14,100
40			23.5	9,000	41.5	10,200	50.5	10,800
45					33.0	7,700	44.5	8,300
50					21.5	5,800	38.0	6,400
55							30.5	4,800
60							19.5	3,600
Min.Bm. Ang./Cap.	0.0	10,900	0.0	7,400	0.0	4,800	0.0	3,000
Radius (ft)	34.0		43.0		53.0		63.0	

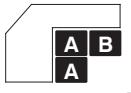
Load Radius (ft)	80.0 ft		90.0 ft		98.7 ft	
	24°	360°	24°	360°	24°	360°
12	79.5	62,800				
15	77.5	62,800	79.5	61,400		
20	73.5	39,200	76.0	39,000	77.5	38,800
25	69.0	26,000	72.0	25,800	74.5	25,700
30	65.0	18,700	68.5	18,500	71.0	18,400
35	61.0	13,900	65.0	13,700	67.5	13,600
40	56.5	10,700	61.0	10,500	64.5	10,400
45	52.0	8,200	57.0	8,100	61.0	8,000
50	47.0	6,300	53.0	6,200	57.5	6,200
55	41.5	4,800	49.0	4,700	53.5	4,700
60	35.5	3,500	44.5	3,500	49.5	3,400
65	28.5	2,500	39.0	2,500	45.5	2,400
70	18.0	1,700	33.5	1,600	41.0	1,600
Min.Bm. Ang./Cap.	0.0	1,200	26.5		37.0	
Radius (ft)	73.0		75.0		74.2	

**Fixed Boom Lengths
Rated Lifting Capacities
In Pounds
See Operation Note 10.**



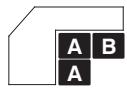
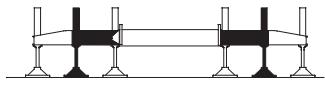
Load Radius (ft)	41.0 ft		47.0 ft	
	45°	360°	45°	360°
10	70.0	129,200	73.0	110,700
12	66.5	109,600	70.0	105,000
15	62.0	64,700	66.0	66,800
20	53.0	35,400	58.5	37,100
25	43.0	22,300	51.0	24,000
30	29.5	14,900	41.5	16,500
35			30.5	11,700
Min.Bm. Ang./Cap.	0.0	10,900	0.0	8,300
Radius (ft)		34.0		40.0

Load Radius (ft)	61.3 ft		76.0 ft	
	45°	360°	45°	360°
10	77.5	106,900		
12	75.5	106,900	79.0	81,000
15	72.5	68,700	76.5	68,300
20	67.0	38,500	72.0	38,300
25	61.5	25,400	68.0	25,300
30	56.0	18,000	63.5	17,900
35	49.5	13,200	59.0	13,200
40	43.0	9,900	54.5	10,000
45	35.0	7,400	49.5	7,500
50	24.5	5,500	44.0	5,600
55			38.0	4,100
60			31.0	2,800
65			21.5	1,800
Min.Bm. Ang./Cap.	0.0	4,100	0.0	1,100
Radius (ft)		54.3		69.0

Rated Lifting Capacities In Pounds								10,800 lb		
Load Radius (ft)	41.0 ft		50.0 ft		60.0 ft		70.0 ft		80.0 ft	
	24°	360°	24°	360°	24°	360°	24°	360°	24°	360°
10	70.0	132,000	74.0	89,000	77.0	62,900	79.0	49,800		
12	66.5	113,100	71.5	87,100	75.0	58,500	77.5	46,500	79.5	42,400
15	62.0	72,000	68.0	75,000	72.0	53,000	75.0	42,200	77.5	42,400
20	53.0	39,800	61.0	42,200	67.0	43,800	70.5	36,400	73.5	37,900
25	43.0	25,500	54.0	27,800	61.0	29,400	66.0	30,300	70.0	30,600
30	29.5	17,400	46.0	19,700	55.0	21,300	61.5	22,200	65.5	22,400
35			36.5	14,400	49.0	15,900	56.5	16,900	61.5	17,200
40			23.5	10,700	41.5	12,300	51.0	13,200	57.0	13,500
45					33.0	9,500	45.0	10,500	52.5	10,800
50					21.5	7,400	38.5	8,400	47.5	8,700
55							30.5	6,700	42.0	7,000
60							20.0	5,300	36.0	5,700
65									28.5	4,600
70									18.5	3,600
Min.Bm. Ang./Cap.	0.0	13,000	0.0	9,000	0.0	6,400	0.0	4,600	0.0	3,100
Radius (ft)	34.0		43.0		53.0		63.0		73.0	

Load Radius (ft)	90.0 ft		100.0 ft		110.0 ft		120.0 ft		127.0 ft	
	24°	360°	24°	360°	24°	360°	24°	360°	24°	360°
15	79.0	36,700								
20	76.0	36,700	77.5	30,700	79.0	29,100				
25	72.5	30,800	75.0	30,700	77.0	29,100	78.5	25,500	79.0	22,600
30	69.0	22,600	71.5	22,700	74.0	22,400	76.0	22,100	77.0	22,000
35	65.5	17,300	68.5	17,400	71.0	17,100	73.0	16,800	74.5	16,700
40	61.5	13,700	65.0	13,700	68.0	13,400	70.0	13,200	71.5	13,000
45	57.5	11,100	61.5	11,100	65.0	10,800	67.5	10,600	69.0	10,500
50	53.5	9,000	58.0	9,000	61.5	8,800	64.5	8,600	66.5	8,500
55	49.0	7,300	54.5	7,400	58.5	7,200	62.0	7,000	64.0	6,800
60	44.5	5,900	50.5	6,000	55.0	5,800	59.0	5,600	61.0	5,500
65	39.5	4,800	46.5	4,900	51.5	4,700	56.0	4,500	58.5	4,400
70	33.5	3,900	42.0	3,900	48.0	3,800	53.0	3,600	55.5	3,500
75	27.0	3,000	37.5	3,100	44.5	3,000	49.5	2,800	52.5	2,700
80	17.5	2,400	32.0	2,400	40.0	2,300	46.0	2,100	49.5	2,000
85			25.5	1,800	35.5	1,700	42.5	1,500	46.0	1,400
90			16.5	1,300	30.5	1,100	38.5	1,000		
Min.Bm. Ang./Cap.	0.0	2,000	0.0	1,000	27.5		37.5		42.5	
Radius (ft)	83.0		93.0		92.5		91.0		90.0	

**Rated Lifting Capacities
In Pounds**



Intermediate

10,800 lb

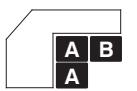
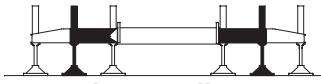
Load Radius (ft)	41.0 ft		50.0 ft		60.0 ft		70.0 ft	
	24°	360°	24°	360°	24°	360°	24°	360°
10	70.0	132,000	74.0	89,000	77.0	77,000	79.5	74,000
12	66.5	113,100	71.5	87,100	75.0	72,200	77.5	74,000
15	62.0	72,000	68.0	75,000	72.0	66,000	75.0	68,500
20	53.0	39,800	61.0	42,200	66.5	43,500	70.5	44,000
25	43.0	25,500	54.0	27,800	61.0	29,000	66.0	29,500
30	29.5	17,400	46.0	19,700	55.0	20,900	61.0	21,400
35			36.5	14,400	48.5	15,600	56.0	16,200
40			23.5	10,700	41.5	12,000	50.5	12,600
45					33.0	9,200	45.0	9,800
50					21.5	7,100	38.0	7,700
55							30.5	6,100
60							19.5	4,700
Min.Bm. Ang./Cap.	0.0	13,000	0.0	9,000	0.0	6,100	0.0	4,000
Radius (ft)	34.0		43.0		53.0		63.0	

Load Radius (ft)	80.0 ft		90.0 ft		100.0 ft		113.1 ft	
	24°	360°	24°	360°	24°	360°	24°	360°
12	79.5	57,000						
15	77.5	51,900	79.5	48,700				
20	73.5	44,500	76.0	42,800	78.5	42,500		
25	69.5	29,900	72.5	29,800	75.0	29,600	77.5	29,300
30	65.5	21,800	68.5	21,700	71.5	21,500	74.5	21,300
35	61.0	16,500	65.0	16,500	68.0	16,300	71.5	16,000
40	57.0	12,900	61.5	12,800	65.0	12,700	68.5	12,500
45	52.0	10,300	57.5	10,300	61.5	10,100	65.5	9,900
50	47.0	8,200	53.5	8,200	58.0	8,000	62.5	7,800
55	42.0	6,500	49.0	6,500	54.5	6,400	59.5	6,200
60	35.5	5,100	44.5	5,200	50.5	5,100	56.5	4,900
65	28.5	4,000	39.5	4,100	46.5	3,900	53.0	3,800
70	18.5	3,100	33.5	3,100	42.0	3,000	49.5	2,900
75			27.0	2,300	37.5	2,200	46.0	2,100
80			17.5	1,600	32.0	1,500	42.0	1,400
Min.Bm. Ang./Cap.	0.0	2,600	0.0	1,300	25.5		38.5	
Radius (ft)	73.0		83.0		85.0		84.2	

Rated Lifting Capacities In Pounds								
Load Radius (ft)	41.0 ft		50.0 ft		60.0 ft		70.0 ft	
	24°	360°	24°	360°	24°	360°	24°	360°
10	70.0	132,000	74.0	89,000	77.0	77,000	79.5	74,400
12	66.5	113,100	71.5	87,100	75.0	72,200	77.5	74,300
15	62.0	72,000	68.0	75,000	72.0	66,000	75.0	68,700
20	53.0	39,800	61.0	42,200	66.5	43,500	70.5	44,000
25	43.0	25,500	54.0	27,800	61.0	29,000	66.0	29,500
30	29.5	17,400	46.0	19,700	55.0	20,900	61.0	21,400
35			36.5	14,400	48.5	15,600	56.0	16,200
40			23.5	10,700	41.5	12,000	50.5	12,500
45					33.0	9,200	45.0	9,800
50					21.5	7,100	38.0	7,700
55							30.5	6,000
60							19.5	4,700
Min.Bm. Ang./Cap.	0.0	13,000	0.0	9,000	0.0	6,100	0.0	4,000
Radius (ft)	34.0		43.0		53.0		63.0	

Load Radius (ft)	80.0 ft		90.0 ft		98.7 ft	
	24°	360°	24°	360°	24°	360°
12	79.5	62,800				
15	77.5	62,800	79.5	61,400		
20	73.5	43,700	76.0	43,400	78.0	43,300
25	69.5	29,200	72.5	29,000	74.5	28,900
30	65.0	21,200	68.5	21,000	71.0	20,800
35	61.0	15,900	65.0	15,800	67.5	15,700
40	56.5	12,400	61.0	12,300	64.5	12,200
45	52.0	9,700	57.5	9,600	61.0	9,500
50	47.0	7,600	53.5	7,600	57.5	7,500
55	41.5	6,000	49.0	5,900	53.5	5,800
60	35.5	4,600	44.5	4,600	50.0	4,500
65	28.5	3,500	39.5	3,400	45.5	3,400
70	18.5	2,600	33.5	2,500	41.0	2,500
75			26.5	1,700	36.5	1,700
80			17.5	1,000	30.5	1,000
Min.Bm. Ang./Cap.	0.0	2,100	12.0		29.0	
Radius (ft)	73.0		81.0		81.0	

**Fixed Boom Lengths
Rated Lifting Capacities
In Pounds
See Operation Note 10.**



10,800 lb

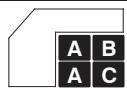
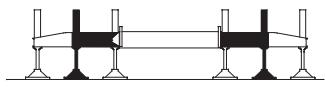
Load Radius (ft)	41.0 ft		47.0 ft	
	45°	360°	45°	360°
10	70.0	132,000	73.0	110,700
12	66.5	113,100	70.0	105,000
15	62.0	72,000	66.0	74,100
20	53.0	39,800	58.5	41,500
25	43.0	25,500	51.0	27,200
30	29.5	17,400	41.5	19,000
35			30.5	13,700
Min.Bm. Ang./Cap.	0.0	13,000	0.0	10,100
Radius (ft)	34.0		40.0	

Load Radius (ft)	61.3 ft		76.0 ft	
	45°	360°	45°	360°
10	77.5	106,900		
12	75.5	106,900	79.0	81,000
15	72.5	76,000	77.0	75,700
20	67.0	42,900	72.5	42,700
25	61.5	28,600	68.0	28,400
30	56.0	20,500	63.5	20,400
35	49.5	15,300	59.0	15,200
40	43.0	11,600	54.5	11,700
45	35.0	8,900	49.5	9,000
50	24.5	6,800	44.0	6,900
55			38.0	5,200
60			31.0	3,900
65			21.5	2,800
Min.Bm. Ang./Cap.	0.0	5,400	0.0	2,000
Radius (ft)	54.3		69.0	

Rated Lifting Capacities In Pounds										
Load Radius (ft)	41.0 ft		50.0 ft		60.0 ft		70.0 ft		80.0 ft	
	24°	360°	24°	360°	24°	360°	24°	360°	24°	360°
10	70.0	134,200	.0	89,000	77.0	62,900	79.0	49,800		
12	66.5	115,100	.5	87,100	75.0	58,500	77.5	46,500	79.5	42,400
15	62.0	76,300	.5	79,200	72.0	53,000	75.0	42,200	77.5	42,400
20	53.0	42,400	.0	44,700	67.0	45,700	70.5	36,400	73.5	37,900
25	43.0	27,300	.0	29,700	61.0	31,200	66.0	31,900	70.0	32,500
30	29.5	18,800	.0	21,100	55.0	22,700	61.5	23,600	65.5	23,900
35			.5	15,600	49.0	17,100	56.5	18,100	61.5	18,300
40			.5	11,700	41.5	13,200	51.0	14,200	57.0	14,500
45					33.0	10,400	45.0	11,400	52.5	11,700
50					21.5	8,200	38.5	9,100	47.5	9,500
55							30.5	7,400	42.0	7,700
60							19.5	6,000	36.0	6,300
65									28.5	5,100
70									18.5	4,100
Min.Bm. Ang./Cap.	0.0	14,200	0.0	9,900	0.0	7,100	0.0	5,200	0.0	3,600
Radius (ft)	33.9		43.0		53.0		63.0		73.0	

Load Radius (ft)	90.0 ft		100.0 ft		110.0 ft		120.0 ft		127.0 ft	
	24°	360°	24°	360°	24°	360°	24°	360°	24°	360°
15	79.0	36,700								
20	76.0	36,700	77.5	30,700	79.0	29,100				
25	72.5	32,700	75.0	30,700	77.0	29,100	78.5	25,500	79.0	22,600
30	69.0	24,100	71.5	24,100	74.0	23,800	76.0	23,600	77.0	22,600
35	65.0	18,500	68.5	18,600	70.5	18,300	73.0	18,000	74.5	17,900
40	61.5	14,700	65.0	14,700	67.5	14,400	70.0	14,200	72.0	14,100
45	57.5	11,900	61.5	12,000	65.0	11,700	67.5	11,500	69.5	11,400
50	53.5	9,700	58.0	9,800	61.5	9,600	64.5	9,400	66.5	9,200
55	49.0	8,000	54.5	8,100	58.5	7,800	61.5	7,600	63.5	7,500
60	44.5	6,500	50.5	6,600	55.0	6,500	59.0	6,300	61.0	6,100
65	39.5	5,400	46.5	5,500	52.0	5,300	55.5	5,100	58.5	5,000
70	33.5	4,400	42.0	4,500	48.0	4,300	52.5	4,100	55.5	4,000
75	27.0	3,500	37.5	3,600	44.5	3,400	49.5	3,300	52.5	3,200
80	17.5	2,800	32.0	2,900	40.0	2,700	46.0	2,600	49.0	2,500
85			25.5	2,300	35.5	2,100	42.5	1,900	46.0	1,800
90				16.5	1,700	30.5	1,500	38.5	1,400	43.0
95						24.5	1,000	34.5	900	
Min.Bm. Ang./Cap.	0.0	2,400	0.0	1,400	21.5		34.0		39.5	
Radius (ft)	83.0		93.0		96.9		95.6		94.5	

**Rated Lifting Capacities
In Pounds**



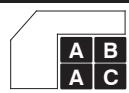
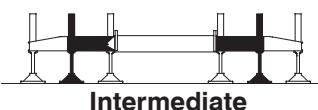
Intermediate

13,000 lb

Load Radius (ft)	41.0 ft		50.0 ft		60.0 ft		70.0 ft	
	24°	360°	24°	360°	24°	360°	24°	360°
10	70.0	134,200	74.0	89,000	77.0	77,000	79.5	74,000
12	66.5	115,100	71.5	87,100	75.0	72,200	77.5	74,000
15	62.0	76,300	67.5	79,200	72.0	66,000	75.0	68,500
20	53.0	42,400	61.0	44,700	66.5	46,000	70.5	46,600
25	43.0	27,300	54.0	29,700	61.0	30,900	66.0	31,400
30	29.5	18,800	46.0	21,100	55.0	22,400	61.0	22,900
35			36.5	15,600	48.5	16,800	56.0	17,400
40			23.5	11,700	41.5	12,900	50.5	13,500
45					33.0	10,100	44.5	10,700
50					21.5	7,900	38.0	8,500
55							30.5	6,800
60							19.5	5,400
Min.Bm. Ang./Cap.	0.0	14,200	0.0	9,900	0.0	6,800	0.0	4,600
Radius (ft)	33.9		0.0		53.0		63.0	

Load Radius (ft)	80.0 ft		90.0 ft		100.0 ft		113.1 ft	
	24°	360°	24°	360°	24°	360°	24°	360°
12	79.5	57,000						
15	77.5	51,900	79.5	48,700				
20	73.5	44,900	76.0	42,800	78.0	42,500		
25	69.5	31,800	72.5	31,700	75.0	31,400	77.5	31,100
30	65.5	23,200	68.5	23,200	71.5	22,900	74.5	22,700
35	61.0	17,700	65.0	17,700	68.0	17,500	71.5	17,200
40	56.5	13,900	61.0	13,900	64.5	13,600	68.5	13,400
45	52.0	11,100	57.5	11,100	61.5	11,000	65.5	10,800
50	47.0	8,900	53.0	9,000	58.0	8,800	62.5	8,600
55	42.0	7,200	49.0	7,200	54.5	7,100	59.5	6,900
60	35.5	5,800	44.5	5,800	50.5	5,700	56.0	5,600
65	28.5	4,600	39.5	4,600	46.5	4,500	53.0	4,400
70	18.0	3,600	33.5	3,600	42.0	3,500	49.5	3,400
75			26.5	2,800	37.5	2,700	46.0	2,600
80			17.5	2,100	32.0	2,000	42.0	1,900
85					25.5	1,400	38.0	1,200
Min.Bm. Ang./Cap.	0.0	3,100	0.0	1,700	17.0		35.0	
Radius (ft)	73.0		83.0		89.6		88.5	

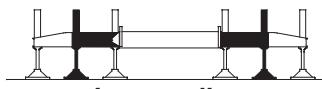
Rated Lifting Capacities In Pounds								
Load Radius (ft)	41.0 ft		50.0 ft		60.0 ft		70.0 ft	
	2°	360°	2°	360°	2°	360°	2°	360°
10	70.0	134,200	74.0	89,000	77.0	77,000	79.0	74,400
12	66.5	115,100	71.5	87,100	75.0	72,200	77.5	74,300
15	62.0	76,300	67.5	79,200	72.0	66,000	75.0	68,700
20	53.0	42,400	61.0	44,700	66.5	46,000	70.5	46,600
25	43.0	27,300	54.0	29,700	61.0	30,900	66.0	31,300
30	29.5	18,800	46.0	21,100	55.0	22,400	61.0	22,800
35			36.5	15,600	48.5	16,800	56.0	17,400
40			23.5	11,700	41.5	12,900	50.5	13,500
45					33.0	10,100	44.5	10,700
50					21.5	7,900	38.0	8,500
55							30.5	6,700
60							19.5	5,300
Min.Bm. Ang./Cap.	0.0	14,200	0.0	9,900	0.0	6,800	0.0	4,600
Radius (ft)	33.9		43.0		53.0		63.0	



13,000 lb

Load Radius (ft)	80.0 ft		90.0 ft		98.7 ft	
	2°	360°	2°	360°	2°	360°
12	79.5	62,800				
15	77.5	62,800	79.5	61,400		
20	73.5	46,300	76.0	46,000	78.0	45,800
25	69.5	31,100	72.5	30,900	74.5	30,700
30	65.0	22,600	68.5	22,400	71.0	22,300
35	61.0	17,100	65.0	17,000	67.5	16,800
40	56.5	13,300	61.0	13,200	64.5	13,100
45	52.0	10,600	57.5	10,500	61.0	10,400
50	47.0	8,400	53.0	8,300	57.5	8,200
55	41.5	6,600	49.0	6,600	53.5	6,500
60	35.5	5,200	44.5	5,200	50.0	5,100
65	28.5	4,100	39.0	4,000	45.5	4,000
70	18.0	3,100	33.5	3,000	41.0	3,000
75			27.0	2,200	36.5	2,200
80			17.5	1,500	30.5	1,400
Min.Bm. Ang./Cap.	0.0	2,600	0.0	1,100	24.5	
Radius (ft)	73.0		83.0		84.6	

**Fixed Boom Lengths
Rated Lifting Capacities
In Pounds
See Operation Note 10.**



13,000 lb

Load Radius (ft)	41.0 ft		47.0 ft	
	45°	360°	45°	360°
10	70.0	134,200	73.0	110,700
12	66.5	115,100	70.0	105,000
15	62.0	76,300	66.0	78,300
20	53.0	42,400	58.5	44,100
25	43.0	27,300	50.5	29,000
30	29.5	18,800	41.5	20,500
35			30.5	14,900
Min.Bm. Ang./Cap.	0.0	14,200	0.0	11,100
Radius (ft)	33.9		39.9	

Load Radius (ft)	61.3 ft		76.0 ft	
	45°	360°	45°	360°
10	77.5	106,900		
12	75.5	106,900	79.0	81,000
15	72.5	80,200	77.0	77,400
20	67.0	45,500	72.0	45,300
25	61.5	30,400	68.0	30,200
30	56.0	22,000	63.5	21,800
35	49.5	16,500	59.0	16,400
40	43.0	12,600	54.5	12,700
45	35.0	9,800	49.5	9,900
50	24.5	7,600	44.0	7,700
55			38.0	5,900
60			31.0	4,500
65			21.5	3,400
Min.Bm. Ang./Cap.	0.0	6,100	0.0	2,600
Radius (ft)	54.3		69.0	

Rated Lifting Capacities In Pounds				Retracted			7,200 lb
Load Radius (ft)	41.0 ft		50.0 ft		60.0 ft		
	24°	360°	24°	360°	24°	360°	
10	69.5	53,400	73.5	56,100	77.0	58,100	
12	66.5	37,900	71.0	40,200	75.0	42,000	
15	61.5	24,900	67.5	27,100	71.5	28,600	
20	53.0	13,800	60.5	15,900	66.5	17,500	
25	43.0	7,900	53.5	10,000	60.5	11,500	
30	29.5	4,200	45.5	6,200	55.0	7,700	
35			36.5	3,700	48.5	5,100	
40			23.5	1,800	41.5	3,200	
45					33.0	1,800	
Min.Bm. Ang./Cap.	0.0	2,100	0.0	900	23.5		
Radius (ft)	34.0		43.0		49.1		

Load Radius (ft)	70.0 ft		80.0 ft		90.0 ft		
	24°	360°	24°	360°	24°	360°	
10	79.0	49,800					
12	77.5	43,100	79.5	42,400			
15	74.5	29,700	77.0	29,900	79.0	30,200	
20	70.0	18,300	73.0	18,600	75.0	18,800	
25	65.5	12,400	69.0	12,700	71.5	12,800	
30	61.0	8,600	65.0	9,000	68.0	9,100	
35	56.0	6,000	61.0	6,400	64.5	6,600	
40	50.5	4,100	56.5	4,500	61.0	4,700	
45	44.5	2,700	52.0	3,000	57.0	3,300	
50	38.0	1,600	47.0	1,900	53.0	2,100	
55			41.5	1,000	48.5	1,200	
Min.Bm. Ang./Cap.	32.0		40.5		46.5		
Radius (ft)	53.9		56.0		57.1		

**Rated Lifting Capacities
In Pounds**



10,800 lb

Load Radius (ft)	41.0 ft		50.0 ft		60.0 ft		70.0 ft	
	24°	360°	24°	360°	24°	360°	24°	360°
10	69.5	61,000	74.0	63,700				
12	66.5	43,600	71.0	46,000	75.0	47,700		
15	61.5	29,100	67.5	31,300	71.5	32,800	75.0	33,800
20	53.0	16,700	61.0	18,800	66.5	20,300	70.5	21,200
25	43.0	10,100	53.5	12,200	61.0	13,600	65.5	14,600
30	29.5	6,000	45.5	8,000	55.0	9,500	61.0	10,400
35			36.5	5,200	48.5	6,600	56.0	7,500
40			23.5	3,100	41.5	4,500	50.5	5,400
45					33.0	3,000	44.5	3,800
50					21.5	1,700	38.0	2,600
55							30.5	1,600
Min.Bm. Ang./Cap.	0.0	3,600	0.0	2,100	0.0	1,100	21.0	
Radius (ft)	34.0		43.0		53.0		59.4	

Load Radius (ft)	80.0 ft		90.0 ft		100.0 ft	
	24°	360°	24°	360°	24°	360°
20	73.0	21,500	75.5	21,700		
25	69.0	14,800	72.0	15,000	74.0	15,000
30	65.0	10,700	68.5	10,900	71.0	11,000
35	61.0	7,800	64.5	8,100	67.5	8,100
40	56.5	5,800	61.0	6,000	64.5	6,100
45	52.0	4,200	57.0	4,400	61.0	4,500
50	47.0	2,900	53.0	3,200	57.5	3,300
55	41.5	1,900	48.5	2,200	54.0	2,200
60	35.5	1,100	44.0	1,300	50.0	1,400
Min.Bm. Ang./Cap.	33.5		41.0		47.0	
Radius (ft)	61.4		62.9		63.6	



WARNING

Do Not Raise Boom Above 76° Boom Angle. Loss Of Backward Stability Will Occur Causing a Tipping Condition.

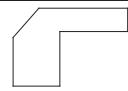
Rated Lifting Capacities In Pounds						EM 1		
Load Radius (ft)	41.0 ft		50.0 ft		60.0 ft		70.0 ft	
	73°	360°	73°	360°	73°	360°	73°	360°
10	69.5	65,300	74.0	68,000	77.0	62,900	79.0	49,800
12	66.5	46,900	71.0	49,300	75.0	51,000	77.5	46,500
15	61.5	31,500	67.5	33,700	71.5	35,200	75.0	36,300
20	53.0	18,300	60.5	20,500	66.5	22,000	70.5	22,900
25	43.0	11,400	53.5	13,400	60.5	14,900	65.5	15,800
30	29.5	7,100	45.5	9,100	55.0	10,500	61.0	11,400
35			36.5	6,100	48.5	7,500	56.0	8,400
40			23.5	3,900	41.5	5,300	50.5	6,200
45					33.0	3,600	44.5	4,500
50					21.5	2,300	38.0	3,200
55							30.5	2,100
Min.Bm. Ang./Cap.	0.0	4,500	0.0	2,800	0.0	1,600	19.5	
Radius (ft)	33.9		43.0		53.0		60.0	
Load Radius (ft)	80.0 ft		90.0 ft		100.0 ft		110.0 ft	
	73°	360°	73°	360°	73°	360°	73°	360°
12	79.5	42,400						
15	77.0	36,500	79.0	36,700				
20	73.0	23,200	75.5	23,400	77.0	23,400	78.5	23,100
25	69.0	16,100	71.5	16,200	74.0	16,300	75.5	16,000
30	65.0	11,800	68.0	12,000	71.0	12,000	73.0	11,700
35	61.0	8,700	64.5	9,000	67.5	9,000	70.0	8,800
40	56.5	6,500	61.0	6,700	64.0	6,800	67.0	6,600
45	52.0	4,800	57.0	5,100	61.0	5,200	64.0	5,000
50	47.0	3,500	53.0	3,700	57.5	3,800	61.0	3,700
55	41.5	2,400	48.5	2,700	54.0	2,800	58.0	2,600
60	35.5	1,600	44.0	1,800	50.0	1,900	54.5	1,700
65			39.0	1,100	46.0	1,200	51.5	1,000
Min.Bm. Ang./Cap.	28.5		36.5		43.5		50.5	
Radius (ft)	65.0		67.1		67.9		66.3	

 **WARNING**
Do Not Raise Boom Above 73° Boom Angle. Loss Of Backward Stability Will Occur Causing a Tipping Condition.

Rated Lifting Capacities In Pounds
On Tires - Stationary
Boom Centered Over Rear



On Tires



0 lb



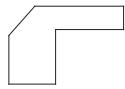
Load Radius (ft)	41.0 ft		50.0 ft		60.0 ft	
	24°	Rear	24°	Rear	24°	Rear
10	69.5	33,800				
12	66.5	30,600	71.0	31,500	74.5	26,500
15	61.5	23,500	67.5	25,400	71.5	26,500
20	53.0	14,100	60.5	15,900	66.5	17,200
25	43.0	8,900	53.5	10,600	60.5	11,800
30	29.5	5,500	45.5	7,200	55.0	8,400
35			36.5	4,800	48.5	6,000
40			23.5	3,100	41.5	4,300
45					33.0	2,900
50					21.5	1,900
Min.Bm. Ang./Cap.	0.0	3,500	0.0	2,200	0.0	1,300
Radius (ft)	34.0		43.0		53.0	

Load Radius (ft)	70.0 ft		80.0 ft		90.0 ft	
	24°	Rear	24°	Rear	24°	Rear
15	74.5		73.0		71.5	
		20,300		16,600		13,000
20	70.0	17,900	69.0	12,800	68.0	9,700
25	65.5	12,700	65.0	9,500	64.5	7,300
30	61.0	9,200	61.0	7,100		
35	56.0	6,800				
40	50.5	5,000	56.5	5,300	61.0	5,500
45	44.5	3,700	52.0	3,900	57.0	4,100
50	38.0	2,600	47.0	2,900	53.0	3,100
55	30.5	1,700	41.5	2,000	48.5	2,200
60	19.5	1,000	35.5	1,300	44.0	1,500
Min.Bm. Ang./Cap.	17.5		31.5		39.5	
Radius (ft)	61.0		62.5		64.7	

Rated Lifting Capacities In Pounds
On Tires - Pick & Carry - 1 mph
Boom Centered Over Rear



On Tires



0 lb



Load Radius (ft)	41.0 ft		50.0 ft		60.0 ft	
	24°	Rear	24°	Rear	24°	Rear
10	69.5	23,900				
12	66.5	21,300	71.0	22,200	74.5	22,900
15	61.5	18,100	67.5	19,100	71.5	19,900
20	53.0	14,000	60.5	15,100	66.5	15,900
25	43.0	8,900	53.5	10,600	60.5	11,800
30	29.5	5,500	45.5	7,200	55.0	8,400
35			36.5	4,800	48.5	6,000
40			23.5	3,100	41.5	4,300
45					33.0	2,900
50					21.5	1,900
Min.Bm. Ang./Cap.	0.0	3,500	0.0	2,200	0.0	1,300
Radius (ft)	34.0		43.0		53.0	

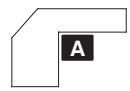
Load Radius (ft)	70.0 ft		80.0 ft		90.0 ft	
	24°	Rear	24°	Rear	24°	Rear
15	74.5	20,300				
20	70.0	16,400	73.0	16,600		
25	65.5	12,700	69.0	12,800	71.5	13,000
30	61.0	9,200	65.0	9,500	68.0	9,700
35	56.0	6,800	61.0	7,100	64.5	7,300
40	50.5	5,000	56.5	5,300	61.0	5,500
45	44.5	3,700	52.0	3,900	57.0	4,100
50	38.0	2,600	47.0	2,900	53.0	3,100
55	30.5	1,700	41.5	2,000	48.5	2,200
60	19.5	1,000	35.5	1,300	44.0	1,500
Min.Bm. Ang./Cap.	17.5		31.5		39.5	
Radius (ft)	61.0		62.7		64.7	

Rated Lifting Capacities In Pounds On Tires - Stationary Boom Centered Over Rear			On Tires		A	EM 1
Load Radius (ft)	41.0 ft		50.0 ft		60.0 ft	
	24°	Rear	24°	Rear	24°	Rear
10	69.5	33,800				
12	66.5	30,600	71.0	31,400	74.5	28,200
15	61.5	26,500	67.5	27,500	71.5	28,200
20	53.0	16,400	61.0	18,100	66.5	19,400
25	43.0	10,700	53.5	12,400	61.0	13,500
30	29.5	7,000	45.5	8,600	55.0	9,800
35			36.5	6,100	48.5	7,200
40			23.5	4,100	41.5	5,300
45					33.0	3,800
50					21.5	2,700
Min.Bm. Ang./Cap.	0.0	4,800	0.0	3,200	0.0	2,100
Radius (ft)	34.0		43.0		53.0	
Load Radius (ft)	70.0 ft		80.0 ft		90.0 ft	
	24°	Rear	24°	Rear	24°	Rear
15	74.5	20,300				
20	70.0	20,100	73.0	16,600		
25	65.5	14,300	69.0	14,600	72.0	14,700
30	61.0	10,600	65.0	10,900	68.5	11,100
35	56.0	8,000	61.0	8,300	64.5	8,500
40	50.5	6,100	56.5	6,300	61.0	6,500
45	44.5	4,600	52.0	4,900	57.0	5,100
50	38.0	3,400	47.0	3,700	53.0	3,900
55	30.5	2,500	41.5	2,700	49.0	2,900
60	19.5	1,700	35.5	2,000	44.0	2,200
65			28.5	1,300	39.0	1,500
Min.Bm. Ang./Cap.	0.0	1,300	21.0		33.5	
Radius (ft)	63.0		68.7		70.0	

**Rated Lifting Capacities In Pounds
On Tires - Pick & Carry - 1 mph
Boom Centered Over Rear**



On Tires



3,600 lb



Load Radius (ft)	41.0 ft		50.0 ft		60.0 ft	
	24°	Rear	24°	Rear	24°	Rear
10	69.5	23,800				
12	66.5	21,300	71.0	22,200	74.5	22,900
15	61.5	18,100	67.5	19,100	71.5	19,900
20	53.0	14,000	60.5	15,100	66.5	15,900
25	43.0	10,700	53.5	12,000	61.0	12,800
30	29.5	7,000	45.5	8,600	55.0	9,800
35			36.5	6,100	48.5	7,200
40			23.5	4,100	41.5	5,300
45					33.0	3,800
50					21.5	2,700
Min.Bm. Ang./Cap.	0.0	4,800	0.0	3,200	0.0	2,100
Radius (ft)	34.0		43.0		53.0	

Load Radius (ft)	70.0 ft		80.0 ft		90.0 ft	
	24°	Rear	24°	Rear	24°	Rear
15	74.5	20,300				
20	70.0	16,400	73.0	16,600		
25	65.5	13,400	69.0	13,600	71.5	13,700
30	61.0	10,600	65.0	10,900	68.5	11,100
35	56.0	8,000	61.0	8,300	64.5	8,500
40	50.5	6,100	56.5	6,300	61.0	6,500
45	44.5	4,600	52.0	4,900	57.0	5,100
50	38.0	3,400	47.0	3,700	53.0	3,900
55	30.5	2,500	41.5	2,700	49.0	2,900
60	19.5	1,700	35.5	2,000	44.0	2,200
65			28.5	1,300	39.0	1,500
Min.Bm. Ang./Cap.	0.0	1,300	21.0		33.5	
Radius (ft)	63.0		68.7		70.0	

**Rated Lifting Capacities In Pounds
On Tires - Stationary
Boom Centered Over Rear**



On Tires

7,200 lb

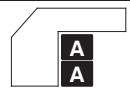
Load Radius (ft)	41.0 ft		50.0 ft		60.0 ft	
	24°	Rear	24°	Rear	24°	Rear
10	69.5	33,700				
12	66.5	30,600	71.0	31,400	74.5	28,200
15	61.5	26,500	67.5	27,500	71.5	28,200
20	53.0	18,600	61.0	20,300	66.5	21,600
25	43.0	12,400	53.5	14,000	61.0	15,300
30	29.5	8,400	45.5	10,100	55.0	11,300
35			36.5	7,300	48.5	8,400
40			23.5	5,200	41.5	6,400
45					33.0	4,800
50					21.5	3,500
Min.Bm. Ang./Cap.	0.0	6,000	0.0	4,100	0.0	2,900
Radius (ft)	34.0		43.0		53.0	

Load Radius (ft)	70.0 ft		80.0 ft		90.0 ft	
	24°	Rear	24°	Rear	24°	Rear
15	74.5	20,300				
20	70.5	20,300	73.0	16,600		
25	65.5	16,100	69.0	16,300	72.0	13,700
30	61.0	12,000	65.0	12,300	68.5	12,500
35	56.0	9,200	61.0	9,500	64.5	9,700
40	50.5	7,100	56.5	7,400	61.0	7,600
45	44.5	5,500	52.0	5,800	57.0	6,000
50	38.0	4,300	47.0	4,500	53.0	4,700
55	30.5	3,200	41.5	3,500	49.0	3,700
60	19.5	2,400	35.5	2,600	44.0	2,800
65			28.5	1,900	39.0	2,100
70			18.5	1,300	33.5	1,500
75					26.5	1,000
Min.Bm. Ang./Cap.	0.0	1,900	0.0	1,000	24.0	
Radius (ft)	63.0		73.0		76.3	

**Rated Lifting Capacities In Pounds
On Tires - Pick & Carry - 1 mph
Boom Centered Over Rear**



On Tires



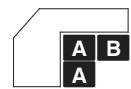
7,200 lb



Load Radius (ft)	41.0 ft		50.0 ft		60.0 ft	
	24°	Rear	24°	Rear	24°	Rear
10	69.5	23,800				
12	66.5	21,300	71.0	22,200	74.5	22,800
15	61.5	18,100	67.5	19,100	71.5	19,800
20	53.0	14,000	60.5	15,100	66.5	15,900
25	43.0	10,800	53.5	12,000	61.0	12,800
30	29.5	8,300	45.5	9,600	55.0	10,500
35			36.5	7,300	48.5	8,400
40			23.5	5,200	41.5	6,400
45					33.0	4,800
50					21.5	3,500
Min.Bm. Ang./Cap.	0.0	6,000	0.0	4,100	0.0	2,900
Radius (ft)	34.0		43.0		53.0	

Load Radius (ft)	70.0 ft		80.0 ft		90.0 ft	
	24°	Rear	24°	Rear	24°	Rear
15	74.5	20,300				
20	70.0	16,400	73.0	16,600		
25	65.5	13,400	69.0	13,600	71.5	13,700
30	61.0	11,100	65.0	11,300	68.5	11,500
35	56.0	9,200	61.0	9,400	64.5	9,600
40	50.5	7,100	56.5	7,400	61.0	7,600
45	44.5	5,500	52.0	5,800	57.0	6,000
50	38.0	4,300	47.0	4,500	53.0	4,700
55	30.5	3,200	41.5	3,500	49.0	3,700
60	19.5	2,400	35.5	2,600	44.0	2,800
65			28.5	1,900	39.0	2,100
70			18.5	1,300	33.5	1,500
75					26.5	1,000
Min.Bm. Ang./Cap.	0.0	1,900	0.0	1,000	24.0	
Radius (ft)	63.0		73.0		76.3	

**Rated Lifting Capacities In Pounds
On Tires - Stationary
Boom Centered Over Rear**

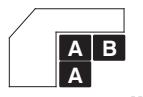


10,800 lb

Load Radius (ft)	41.0 ft		50.0 ft		60.0 ft	
	24°	Rear	24°	Rear	24°	Rear
10	69.5	33,700				
12	66.5	30,500	71.0	31,400	74.5	32,000
15	61.5	26,500	67.5	27,500	71.5	28,100
20	53.0	20,800	61.0	22,300	66.5	23,100
25	43.0	14,100	53.5	15,800	61.0	17,000
30	29.5	9,800	46.0	11,500	55.0	12,700
35			36.5	8,500	48.5	9,600
40			23.5	6,200	41.5	7,400
45					33.0	5,700
50					21.5	4,300
Min.Bm. Ang./Cap.	0.0	7,300	0.0	5,100	0.0	3,600
Radius (ft)	34.0		43.0		53.0	

Load Radius (ft)	70.0 ft		80.0 ft		90.0 ft	
	24°	Rear	24°	Rear	24°	Rear
15	74.5	23,600				
20	70.5	23,600	73.0	18,000		
25	65.5	17,800	69.0	18,000	72.0	13,900
30	61.0	13,400	65.0	13,700	68.5	13,900
35	56.0	10,400	61.0	10,700	65.0	10,900
40	50.5	8,200	56.5	8,400	61.0	8,600
45	45.0	6,400	52.0	6,700	57.0	6,900
50	38.0	5,100	47.0	5,300	53.0	5,500
55	30.5	4,000	41.5	4,200	49.0	4,400
60	19.5	3,100	35.5	3,300	44.5	3,500
65			28.5	2,600	39.5	2,800
70			18.5	1,900	33.5	2,100
75					26.5	1,600
80					17.5	1,100
Min.Bm. Ang./Cap.	0.0	2,600	0.0	1,600	6.0	
Radius (ft)	63.0		73.0		82.0	

**Rated Lifting Capacities In Pounds
On Tires - Pick & Carry - 1 mph
Boom Centered Over Rear**



On Tires

10,800 lb

Load Radius (ft)	41.0 ft		50.0 ft		60.0 ft	
	24°	Rear	24°	Rear	24°	Rear
10	69.5	23,700				
12	66.5	21,300	71.0	22,200	74.5	22,700
15	61.5	18,100	67.5	19,100	71.5	19,800
20	53.0	14,000	60.5	15,100	66.5	15,900
25	43.0	10,800	53.5	12,000	61.0	12,800
30	29.5	8,300	45.5	9,600	55.0	10,500
35			36.5	7,600	48.5	8,600
40			23.5	5,900	41.5	7,000
45					33.0	5,600
50					21.5	4,300
Min.Bm. Ang./Cap.	0.0	6,500	0.0	5,100	0.0	3,600
Radius (ft)	34.0		43.0		53.0	

Load Radius (ft)	70.0 ft		80.0 ft		90.0 ft	
	24°	Rear	24°	Rear	24°	Rear
15	74.5	20,200				
20	70.0	16,400	73.0	16,500		
25	65.5	13,400	69.0	13,600	71.5	13,700
30	61.0	11,100	65.0	11,300	68.5	11,500
35	56.0	9,200	61.0	9,400	64.5	9,600
40	50.5	7,600	56.5	7,900	61.0	8,100
45	45.0	6,300	52.0	6,600	57.0	6,800
50	38.0	5,100	47.0	5,300	53.0	5,500
55	30.5	4,000	41.5	4,200	49.0	4,400
60	19.5	3,100	35.5	3,300	44.5	3,500
65			28.5	2,600	39.5	2,800
70			18.5	1,900	33.5	2,100
75					26.5	1,600
80					17.5	1,100
Min.Bm. Ang./Cap.	0.0	2,600	0.0	1,600	6.0	
Radius (ft)	63.0		73.0		82.0	

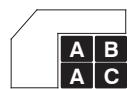
Rated Lifting Capacities In Pounds On Tires - Stationary Boom Centered Over Rear			On Tires		13,000 lb	
Load Radius (ft)	41.0 ft		50.0 ft		60.0 ft	
	24°	Rear	24°	Rear	24°	Rear
10	69.5	33,700				
12	66.5	30,500	71.0	31,400	74.5	31,900
15	61.5	26,500	67.5	27,400	71.5	28,100
20	53.0	21,200	61.0	22,300	66.5	23,100
25	43.0	15,100	53.5	16,800	61.0	18,000
30	29.5	10,700	46.0	12,300	55.0	13,400
35			36.5	9,200	48.5	10,300
40			23.5	6,800	41.5	8,000
45					33.0	6,200
50					21.5	4,800
Min.Bm. Ang./Cap.	0.0	8,000	0.0	5,700	0.0	4,100
Radius (ft)	33.9		43.0		53.0	

Load Radius (ft)	70.0 ft		80.0 ft		90.0 ft	
	24°	Rear	24°	Rear	24°	Rear
15	74.5	23,600				
20	70.5	23,600	73.0	19,000		
25	65.5	18,800	69.0	19,000	72.0	14,700
30	61.0	14,200	65.0	14,500	68.5	14,700
35	56.0	11,100	61.0	11,400	65.0	11,600
40	50.5	8,800	56.5	9,000	61.0	9,200
45	45.0	7,000	52.0	7,200	57.0	7,400
50	38.0	5,600	47.0	5,800	53.0	6,000
55	30.5	4,400	41.5	4,700	49.0	4,900
60	19.5	3,500	35.5	3,700	44.5	3,900
65			28.5	2,900	39.0	3,100
70			18.5	2,300	33.5	2,500
75					26.5	1,900
80					17.0	1,400
Min.Bm. Ang./Cap.	0.0	3,000	0.0	1,900	0.0	1,100
Radius (ft)	63.0		73.0		83.0	

**Rated Lifting Capacities In Pounds
On Tires - Pick & Carry - 1 mph
Boom Centered Over Rear**



On Tires



13,000 lb



Load Radius (ft)	41.0 ft		50.0 ft		60.0 ft	
	24°	Rear	24°	Rear	24°	Rear
10	69.5	23,600				
12	66.5	21,200	71.0	22,100	74.5	22,600
15	61.5	18,100	67.5	19,100	71.5	19,700
20	53.0	13,900	60.5	15,000	66.0	15,800
25	43.0	10,800	53.5	12,000	60.5	12,800
30	29.5	8,200	45.5	9,500	55.0	10,500
35			36.5	7,600	48.5	8,500
40			23.5	5,900	41.5	7,000
45					33.0	5,600
50					21.5	4,500
Min.Bm. Ang./Cap.	0.0	6,500	0.0	5,000	0.0	3,900
Radius (ft)	33.9		43.0		53.0	

Load Radius (ft)	70.0 ft		80.0 ft		90.0 ft	
	24°	Rear	24°	Rear	24°	Rear
15	74.5	20,100				
20	70.0	16,300	73.0	16,500		
25	65.5	13,400	69.0	13,500	71.5	13,700
30	61.0	11,100	65.0	11,300	68.0	11,500
35	56.0	9,200	61.0	9,400	64.5	9,600
40	50.5	7,600	56.5	7,900	61.0	8,000
45	44.5	6,300	52.0	6,500	57.0	6,700
50	38.0	5,200	47.0	5,400	53.0	5,600
55	30.5	4,200	41.5	4,500	49.0	4,700
60	19.5	3,400	35.5	3,600	44.5	3,800
65			28.5	2,900	39.0	3,100
70			18.5	2,300	33.5	2,500
75					26.5	1,900
80					17.0	1,400
Min.Bm. Ang./Cap.	0.0	2,900	0.0	1,900	0.0	1,100
Radius (ft)	63.0		73.0		83.0	